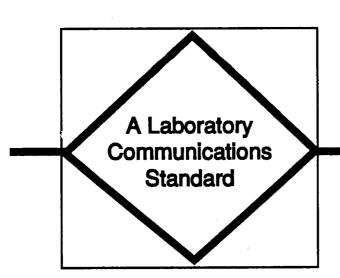
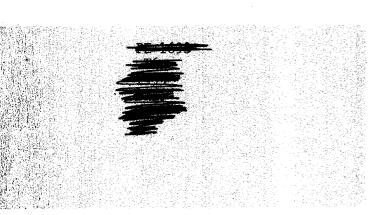
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Acronyms, Initialisms and Abbreviations

(Supersedes the April 1994 Revision)



LabCommunicationsPrint Media Department

Betty J. Tolman, Compiler Sandia National Laboratories/NM

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Acronyms and Initialisms in Technical Reports

An acronym is a combination of letters that can be pronounced as a word. An initialism is an unpronounceable combination of letters. Examples: ICBM (initialism) and CONUS (acronym). Since both terms are similarly used, the comments below apply to both.

Use in Text

General

Avoid overwhelming your reader with acronyms and initialisms.

Wen using an acronym or initialism for the first time in the text, enter the full phrase in its expanded version followed by the abbreviated form in paren theses. Example. Sandia National Laboratories (SNL). In a short report, one expanded version is sufficient. However, in a long report, you may want to repeat the expanded version in a later section to refresh the reader's memory; again, this will be followed by the parenthetical abbrevia-tion.

Plurals

To pluralize abbreviations, add s, as in PMTs. Use the apostrophe only when it may be confusing not to: Kd's.

Using a or an

The indefinite article that is used with an initialism is determined by the initial sound of the initialism's first letter. If the first letter has a vowel sound, use "an"; if it has a consonant sound, use "a." Example: an ICBM. The article to be used with an acronym is determined by the initial sound of the "word." Examples: an FFT, a FORTRAN program, or an ADNET.

Capitalization

Use capital letters only when they stand for a proper name. Example: SNL. Do not use capital letters to indicate the letters that make up the acronym. Example: access control (AC). (The words "access control" in the example should not be initially capped.)

Nomenclature List

Importance of List

If you have used many acronyms and other special terms in a technical report, it is a courtesy to your reader to add a nomenclature (or acronym) list. Do not assume that "everyone" will know what you mean. Your reader may not be as familiar as you are with the terminology in your particular field. Because the report is a permanent record, you must ask yourself if the terms you use today will be clear to a reader several years from now.

Group Similar Types Together

In addition to *initialisms* and *acronyms*, the nomenclature list may include *symbols* and special terms. Group terms according to type: (1) acronyms, abbreviations, and general terms; (2) mathematical English letters or items; (3) mathematical Greek terms. Leave a blank line between each group. No subcaptions are required.

Lower Case Before Upper Case

If the same letter occurs in your nomenclature list in both upper and lower case, list the lower-case letter first. Example: ke is listed before KE.

Listing a Military Service

References to Military Services

References to the Army, Air Force, or Navy are always assumed to be part of the military services in the United States unless it is specifically indicated

otherwise. Example: Army Research Laboratory (Greece)

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H.	Official Sandia Addresses
I.	Proofreader's Marks
J.	Signs and Symbols
K.	State Abbreviations
L.	Suggestions Form

List of Acronyms, Initialisms, and Abbreviations

\mathbf{A}

a.—1. atto or atto- (prefix indicates 10⁻¹⁸)
2. a unit of area equal to 100 m² (used mainly in agriculture)

A—ampere (also written as amp)

A or Å—angstrom, a unit of length (10⁻¹⁰) used primarily to express wavelengths of optical spectra; also known as tenthmeter

aA-absolute ampere; also, abampere

AA—1. atomic absorption **2.** affirmative action **3.** alcoholics anonymous (a Sandia support group) **4.** assistant administrator

AAAP-accelerated access authorization program

AAAS—American Association of the Advancement of Science

AABC-Associated Air Balance Council

AABL—advanced atmospheric burst locator

AAC—affirmative action compliance

AACG—American Association for Crystal Growth

AADCP—Army Air Defense Command Post

AACS—airborne activity confinement system

AAFB-Andrews AFB

AAFCE—Allied Air Forces, Central Europe (NATO)

AAI—abbreviation, acronyms, and initialisms

AAM-air-to-air missile

AANC—Aging Aircraft Nondestructive Center (sometimes written as Aging Aircraft NDI Validation Center)

AAO—Amarillo Area Office (DOE)

AAP—1. affirmative action plan **2.** adoption assistance program **3.** antenna aperture package

AASM-advanced air-to-surface missile

AAU-accelerated aging unit

AAW-anti-aircraft warfare

AB-1, airburst 2, as builts

abamp—absolute ampere

ABAQ—Albuquerque/Bernalillo County air quality

ABC—1. advanced biomedical capsule 2. atomic biological, and chemical (warfare) 3. Advanced Battery Consortium

A-BC/AQCB—Albuquerque-Bernalillo County/ Air Quality Control Board

ABF—advanced bomb family

ABITE-antenna built-in test equipment

ABL—1. atmospheric burst locator 2. armored box launcher 3. airborne laser

ABLE—Affiliated Black Laboratory Employees

ABLS—armored box launcher system

ABM-anti-ballistic missile

ABOSF—automatic burnout safety factor

ABRS—advanced ballistic reentry system

ABRV—advanced ballistic reentry vehicle

abs-absolute

AB/SB—airburst/surface burst

ABW-Air Base Wing

ac or **AC**—alternating current (variable polarity)

aC—abcoulomb (electromagnetic unit)

AC-access control

- ACA—adult children of alcoholics (a Sandia support group)
- ACAD—advanced computer-aided design
- ACARS—access control and release system
- ACBM—asbestos-containing building material
- ACC—1. Alarm Control Center 2. Air Component Command 3. Air Combat Command (The ACC has combined the former TAC and SAC into one command.) 4. abnormal condition control
- ACCD—aircraft compatibility control drawing
- ACCEL—automated circuit card-etching layout
- ACCORD—new generation of software tools for mechnical design and manufacturing automation
- ACCS—1. Auxiliary Central Control Station2. Army Command and Control System
- ACD—1. armed convoy defenders 2. automatic call distribution
- AC&D—alarm communication and display
- ACDA—Arms Control and Disarmament Agency
- ACE—1. access control element 2. access control electronics 3. automatic checkout equipment 4. alternate common equipment 5. Atmospheric Compensation Experiment 6. Allied Command Europe 7. almanac, connectivity, and ephemeris
- Ac-Em-actinium-emanation
- **ACERS**—American Ceramic Society
- ACES—atmospheric combustion exhaust simulator
- ACF—access control facility
- acfm—active cubic feet per minute
- ACH—1. automated clearing house 2. air changes per hour

- **ACHP**—Advisory Council on Historic Preservation
- ACIA—1. asynchronous communications interface adapter 2. asynchronous communications interface alarm
- ACIS—Alan, Charles, Ian System (Part of the CAD System)
- ACL—1. access control list 2. alternative concentration limit
- **ACM—1.** Association for Computing Machinery **2.** advanced conventional munitions **3.** advanced cruise missile **4.** asbestos-containing material
- ACMV-advanced cruise missile-variant
- **ACNFS**—Advisory Committee on Nuclear Facility Safety
- **AC/NUC**—Assistant Controller, Nuclear (in Atomic Weapons Establishment, England)
- ACO—advance change order
- **ACO(UK)** —Atomic Coordinating Office, United Kingdom
- ACP—asbestos-containing product
- ACRE—automatic checkout and readiness equipment
- ACRR—annular core research reactor (upgraded acronym for ACPR)
- **ACRS**—Advisory Committee on Reactor Safeguards
- ACS—1. advanced computer system 2. altitude control system 3. automated cartridge system 4. advanced coded switch 5. access control system 6. approved calibration system
- **A&CS**—access and clearance system
- ACSM—alternate computer security manager
- ACSO—assistant computer Security Officer

ACT—advanced circuit technology

AcU—actinouranium (nuclear physics)

ACU-automatic calling uni

ACV—armored combat vehicle

ACWEG—advanced conventional weapons engineering group

ad—adjoint

AD—1. arming device 2. advanced development 3. aerodynamic diameter

A.D. —anno Domini (in the year of the Lord)

A/D—1. analog to digital (see ADC) 2. arm/disarm

Ada—a high order computer language being developed by the Department of Defense

ADA—1. arming device assembly 2. Americans with Disability Act

ADAC—alarm display and assessment console

ADAM-advanced database and modeling

ADAS—1. automatic data analysis system 2. alarm display and assessment system

ADC—1. analog to digitial converter 2. Air Defense Command 3. atomic demolition charge 4. authorized derivative classifier

ADCOM—Aerospace Defense Command

ADCON—Address Constant (computers)

ADD-arm/disarm device

AD&D-accidental death and dismemberment

ADDS—1. automated drawing data system 2. automated design definition system

ADEA—1. Army Development and EmploymentAgency 2. Age Discrimination EmploymentAct

ADEP—advanced development earth penetrator

ADF—1. adaptive digital filtering 2. automatic direction finder

ADI—1. asynchronous data interface 2. acceptable daily intake

ADIZ—air defense identification zone

ADL—1. alarm data length **2.** Advanced Devices Laboratory, Inc.

ADM—1. atomic demolition munition 2. action description memorandum 3. atomic description memorandum

ADN-ammonium ditramide

ADNET—administrative network

ADP—1. automated (or automatic) data processing 2. advanced development program
3. adaptive digital predictor 4. anticipated disability program

ADPA—American Defense Preparedness
Association

ADPD—automated dry powder dispenser

ADPE—automated data processing equipment

ADR—alternative dispute resolution

ADRC—ARC digitized raster graphic

ADROV—advanced development and remotely operated vehicle

ADS—1. automatic data system 2. access delay system 3. ALCOA Defense System (obsolete; now McDonnell Douglas Technologies, Inc.)
4. activity data sheet 5. automatic depressurization system

ADSID—air-delivered seismic intrusion detector

ADSN—AFTAC distributed subsurface network

ADSS—activated denial security system

ADTC—Armament Development and Test Center

ADT&E—advanced development test and evaluation

ADVICE—advanced image communication and enhancement

AE—allowable emissions

A-E or A/E—architect and engineer

AEA—Atomic Energy Act

AEA-UK—Atomic Energy Authority, United Kingdom

AEC—Atomic Energy Commission (obsolete; now the Department of Energy)

AECS—advanced entry control system

AED-advance electronic design

AEDA—atomic energy defense activities

AEDC—Arnold Engineering Development Center (USAF)

AEM—analytical electron microscope

AEMS—acoustic emission monitoring service

AEOD—analysis and evaluation of operational data (NRS)

AEP—antenna electronics package

AEPDS—automated EAM processing and dissemination system

AEPT—advanced extraction process technology

AER—advance engineering release

AES—1. acceptable equipment system 2. Auger electron spectroscopy 3. advanced exterior sensor

AET—accelerated environmental test

AEU—accelerated environmental unit

af—audio frequency

aF—attofarad (replaces abfarad)

AF—augmentation force

A&F-1. arming and firing 2.arming and fuzing

AFA—arming and fuzing assembly

AFAP—artillery fired atomic projectile

AFAS—advanced field artillery system

AFATDS—advanced field artillery tactical data system

AFATL—Air Force Armament Test Laboratory

AFB—Air Force Base

AFBC—atmospheric fluidized-bed combustion

AFC—1. automatic frequency control **2.** automatic flight control

AFCEA—Armed Forces Communications and Electronics Association

AFCENT—Allied Forces, Central Europe (NATO)

AFD—arming and fuzing device

AFE—anti-ferroelectric

AFEWC—Air Force Electronic Warfare Center

AF&F—arming, fuzing, and firing

AFFF—aqueous foam-forming fluid

AFGL—Air Force Geophysics Laboratory

AFIT—Air Force Institute of Technology

AFLC/NSO—Air Force Logistics Command/ Nuclear Support Office

AFLCR—Air Force Logistics Command Regulation

AFMC—Air Force Material Command

AFNORTH—Allied Forces Northern Europe (NATO) **AFOC**—Air Force Operations Center **AFOSP**—Air Force Office of Security Police **AFP—1.** approved funding program 2. authority for payment **AFPL**—Air Force Phillips Laboratory **AFR—1.** Air Force Regulation 2. away from reactor (unit modifier) **AFRPL**—Air Force Rocket Propulsion Laboratory **AFS**—arming and fuzing system **AFSATCOM**—Air Force Satellite Communications **AFSC**—Air Force Systems Command AFSCR—Air Force Systems Command Regulation **AFSD**—Air Force Space Division **AFSMC**—Air Force Space and Missile Systems Center **AFSOUTH**—Allied Forces Southern Europe (NATO) **AFSPACECOM**—Air Force Space Command AFSRB—Army Fuze Safety Review Board AFSSD—Air Force Space Systems Division AFSTC—Air Force Space Technology Center AFT-a file transfer

AFTAC—Air Force Technical Applications

AFTF—alert fire team facilities

AFTEC-Air Force Test and Evaluation Center

Center

AFV—army family of vehicles **AFWL**—Air Force Weapons Laboratory (now Air Force Phillips Laboratory) AGARD—advisory group for aerospace research and development AGB-automated glovebox bagout AGC—automatic gain control AGE—aerospace ground equipment AGEX—above ground experiment AGL—above ground level AGM-air-to-ground missile **AGNS**—Allied General Nuclear Services AGOV-acid gases/organic vapors AGR-advanced gas-cooled reactor AGS—advanced guidance set **AGSP**—authorized ground station personnel **AGT**—aboveground test AGV—automated guided vehicle AGVT—advanced ground vehicle technology AGZ—actual ground zero aH—abhenry Ah—ampere hour AHAMS—automatic hardness assurance monitoring system AHERA—Asbestos Hazards Emergency Response Act **AHJ**—authority having jurisdiction

AHM-anti-helicopter mine

AHP—analytic hierarchy process

AH-PCRC—Army High Performance Computing Research Center

AHS—American Helicopter Society

AHU-air handling unit

AI—1. Atomics International 2. artificial intelligence

A/I—accident investigation

AIA—1. Army Intelligence Agency 2. automatic incident action 3. Automated Imaging Association

AIAA—American Institute of Aeronautics and Astronautics

AIAAM—advance-interrupt (or intercept) air-to-air missile

AIB—anti-intrusion bar

AIC—acceptable intake for chronic (exposure)

AICBM—anti-intercontinental ballistic missile

AIChE—American Institute of Chemical Engineers

AICPA—American Institute Certified Public Accountants

AICUZ-air installation compatible use zone

AIDS—1. adaptive intrusion data system
2. automated information distribution system

AIE—acceptance inspection equipment

AIEE—American Institute of Electrical Engineers

AIFI—automatic in-flight insertion

AIFV—armored infantry fighting vehicle

AIHA—American Industrial Hygiene Association

AIID—Association for Information and Image Management

AIM-Accident Investigation Manual

AIME—American Institute of Metallaurgical (and Petroleum) Engineers

AIMS—1. assessment information management system 2. authenticated item monitoring system

AIP—American Institute of Physics

AIRAPT—International Association for the Advancement of High Pressure Science and Technology (American Translation)

AIRS—advanced inertial reference sphere (missile guidance)

AIS—1. automatic intercept system 2. administrative information systems 3. adventures in super computing (program) 4. acceptable intake for subchronic (exposure)

(5)

AISES—American Indian Science and Engineering Society

AIT—advance information technology

AIU—armament interface unit

AK—adaption kit

A-K-anode/cathode

aka-also known as

AKM—model designation for the Soviet assault rifle

Al—aluminum (chemical symbol)

AL—1. Albuquerque Operations (Field Office of DOE; use DOE/AL) **2.** action level

ALAP—as low as practicable

ALARA—as low as reasonably achievable

ALAS—automated logistical analysis system

ALBM—1. air-launched ballistic missile 2. air, land, and battle management

ALBURT—Albuquerque budget reform task

ALC—advanced landfill cover

ALCC-Airborne and Launch Control Center

ALCD—advanced landfill cover demonstration

ALCM—air-launched cruise missile

ALDR—Abstracts of Limited Distribution Reports (a TIC publication)

ALDS—automatic lighting detection system

ALE—Arbitary Lagrangian Eulerian

AlGaAs—aluminum gallium arsenide

ALGOL—algorithmic language (computers)

ALI—annual limit on intake

AL-KAO—Albuquerque (Operations Office)/Kirtland Area Office

ALN—adaptive learning network

ALO-air liaison officer

ALPF—adaptive low-pass (electrical) filter

ALS—advanced light source

alt or ALT—1. altitude 2. alternator3. alternation 4. altimeter

ALTL—appraisal logistics team leader

ALU—arithmetic-logic (or logical) unit

ALV—autonomous land vehicle

a.m.—ante meridiem (before noon)

A/m—amperes per meter

Am—1. americium (chemical symbol)2. ammonium (chemical symbol)

AM—1. amplitude modulation (electrical) **2.** asbestos management

A/m—amperes per meter

AMA—1. automatic message accounting (computers) 2. administrative management activity 3. American Medical Association

AMAC—aircraft monitoring and control

AMACS—alarm multiplexer communications system (computers)

AMAD—activity mass aerodynamic diameter

AMC—1. advanced maintenance concept2. Army Materiel Command 3. Army Missile Command

AMCO—Administrative Management Committee (or Council) (SNL)

AMCS—alarm multiplexer communications system

AMD—advanced micro devices

AMEC—advanced materials processes for economics development

AMEF—Agile Manufacturing Enterprise Forum

AMENDS—Army MICOM electronic notarized document system

AMH—automated message handler

AMI—advanced manufacturing initiative

AMIP—Army model improvement program

AMM—automated maintenance management

AMMPEC—advanced materials and manufacturing processes for an economic competitiveness

AMMS—automated maintenance and management system

AMO—1. Albuquerque Microelectronics Operations (formerly Bendix Albuquerque Operations) **2.** aerial measurement operation

amp—ampere (also written as A)

AMPL—Advanced Manufacturing Processes Laboratory (formerly the Process Development Laboratory)

AM-PM—amplitude modulation/phase modulation

AMPS—airborne multisensor pod system

AMR—Atlantic Missile Range

AMRAAM—advanced, medium-range, air-to-air missile

AMS—1. assets management system 2. aerial measuring system 3. American Society for Metals

AMSAA—Army Materiel System Analysis
Activity

AMSL—above mean sea level

AMT—1. advanced munitions technology2. asbestos management team 3. advanced manufacturing technology

amu—atomic mass unit (American Institute of Physics)

An—actinon (chemical symbol)

ANC—Aerojet Nuclear Corporation

AND-advanced nuclear demolition

ANDES—anti-nuclear demonstrators

ANFO—ammonium nitrate and fuel oil

ANI—automatic number identification

ANL—1. Argonne National Laboratory **2.** Aberdeen National Laboratory

ANL-E—Argonne National Laboratory East (Chicago)

ANL-W—Argonne National Laboratory West (at INEL)

ANMC-American National Metric Council

ANN-artificial neural network

ANS—1. American Nuclear Society 2. aerospace nuclear safety

ANSC—automated nuclear survivability criteria

ANS-ENS—American Nuclear Society/ European Nuclear Society

ANSI—American National Standards Institute

ANSP—advanced nuclear systems and projects

ANT—advanced nosetip test

Anti-C-anti-contamination

ANWD—alphanumeric wall display

ANWSS—Army nuclear weapons storage site

AO-auxilliary office

AOA—1. angle of attack 2. as-ordered agreement 3. airborne optical adjunct

[-12, -1

AOC—1. area of concern 2. area of contamination 3. administrative order on consent

AOI—and-or invert (computers)

AOR—acknowledgment of receipt

AOSS—automated office support system

AOT—allowed outage time

AP—1. asbestos phenolic 2. Associated Press3. action plan 4. administrative procedure

APACHE—advanced parallel chemistry

APAR—automated plutonium recording

APAS—automated plutonium assay system

APBA—actuator and pulse battery assembly

APC—1. armored personnel carrier 2. automated PAL controller

APCHS—automated PAL code handling system

APCVD—atmospheric pressure chemical vapor deposition

APD—1. advanced planning document2. Albuquerque Police Department

APF—assigned protection factor

APG—Aberdeen Proving Ground (Maryland)

APH—(Fort) Apache Hill, Virginia

APHA—American Public Health Association

API—1. American Petroleum Institute 2. atmospheric pressure ionization 3. associated particle imaging 4. application programming interface 5. axial power indicator

APL—1. Advanced Physics Laboratory **2.** Applied Physics Laboratory

APM—1. appraisal project manager **2.** axial power monitor

approx—approximate (used only in tabulations
 and figures)

APR—1. airborne profile recorder (see TPR)2. action plan requirement

A-Primed—agility primed: agile product realization for innovative electromechanical devices

APS—1. American Physical Society 2. active protection system 3. accelerated procurement system

APSAHD—adaptive processor, seismic accoustic helicopter detector

APSL—Albuquerque Primary Standards Laboratory (DOE)

APSPID—adaptive processor, seismic personnel intrusion detector

APT—1. Alliance for Photonic Technology2. Automatic Programming Tool (computers)

AQAP—acceptance and quality assurance provisions

AQCA—Air Quality Control Act

AQCR—air quality control regulation (Bernalillo County)

AQES—air quality energy study

AQL-acceptable quality level

AR—1. annual report 2. as required3. administrative requirement

A&R—appraisal and review

ARA—1. applicable or relevant and appropriate (requirement) **2.** airborne radioactivity area

ARAC—atmospheric release advisory capability

ARBN-Army battalion

ARC—1. Acquisition Review Committee
2. accident resistant container 3. Architectural Research Consultants

ARCCC—Accident Response Capability Coordinating Committee

ARD-Army readiness date

ARDEC—Army Research and Development Engineering Center (Picatinny Arsenal, NJ)

ARE—aerothermal reentry experiment

ARES—1. advanced reentry system 2. advanced railroad electronics system

ARF—augmentation reserve force

arg-argument

ARG—accident response group

ARH—antiradiation homing

ARI—1. Army Research Institute 2. alternate rod insertion

ARIEL—Advanced Radar Image Exploitation Laboratory

ARL—1. Army Research Laboratory 2. acceptable reliability level 3. Aerospace Research Laboratories

ARM—atmospheric radiation measurement

ARMS—1. aerial radiological measuring system (Army) 2. Armor School (Army)

ARO-after receipt of order

AROD—airborne remotely operated vehicle

ARP—alarm response procedure

ARPA—1. Advanced Research Projects Agency (formerly DARPA) **2.** Archaeological Resources Protection Act (1979)

ARRIS—active rate reducer and inflation system

ARS—advanced reactor safety

ART—1. armed response team 2. alarm response team 3. airborne response team 4. arsenal release and transport program

ARTAC—Applied Research and Technical Activity Committee

AR&TD—advanced research and technology development

ARTI—advanced rotorcraft technology integration

ARTY FDC—Artillery Fire Direction Center (Army)

aS—absiemen (formerly abmho)

As—atmosphere (standard)

AS—1. airspeed 2. antenna sites 3. Allied Signal (BKC) 4. aviation safety

ASA—1. American Standards Association(obsolete; now USA Standards Institute)2. administrative staff associate

ASAP—1. as soon as possible **2.** advanced seismic array program

ASARC—Army System Acquisition Review Council

ASAS—all source analysis system

ASAT—antisatellite

asb-apostilb (also known as blandel)

ASB-Army Science Board

ASBDU-Advanced System B Data Unit

ASC—ABRES shape charge

ASCE—American Society of Civil Engineers

ASCID—AUTODIN satellite interface compensation device

ASCII—American standard code for information interchange (computer program)

ASCOT—atmospheric studies in complex terrain

ASD-1. adversary sequence diagram

2. Aeronautical Systems Division (Air Force)

3. Assistant Secretary of Defense

ASDP—Assistant Secretary for Defense Programs

ASE—1. antenna shield enclosure **2.** applicant system enhancement

AS&E—American Science and Engineering

ASEC—Applied Solar Energy Corporation

ASEM—Assistant Secretary for Environmental (Restoration and Waste) Management

ASHRAE—American Society of Heating, Refrigerating, and Air Conditioning Engineers

ASIC—application-specific integrated circuit

ASIG—Albuquerque special interest group

AS/KCD or **AS/KCP**—Allied Signal/ Kansas City Division (or Kansas City Plant) (see also BKC and KCD) ASM—1. air-to-surface missile 2. adversary sequence modeling 3. American Society for Metals

ASMD—anti-ship missile defense

ASME—American Society of Mechanical Engineers

ASMS—advanced strategic missile systems

ASNT—American Society of Nondestructive Testing

ASO—Administrative Support Office

ASOC—Air Support Operations Center

ASP—1. automated signal processor **2.** accident sequence precursor

ASQC—American Society for Quality Control

ASR—anelastic strain recovery

ASRAAM—advanced, short-range, air-to-air missile

ASROC—anti-submarine rocket

ASSE—American Society of Safety Engineers

ASSESS—analytic system and software for evaluating safeguards and security

ASSIST—automated system security incident support team (DoD)

ASSP—advanced small-site program

assy—assembly

AST—1. airborne surveillance testbed **2.** aboveground storage tanks

ASTM—1. American Society for Testing Materials **2.** American standard for test, methods

ASTX—(battery-powered sensor/ transmitter)

ASV—adaptive suspension vehicle

ASW—1. anti-submarine warfare **2.** air-to-surface weapon (see ASM)

ASWAT—air solid waste assessment test

asym-asymmetric

at-atomic

at.%-atomic percent

At-1. ampere-turn 2. astatine (chemical symbol)

AT—1. advanced technology 2. applied technology 3. armored tractor

ATA—automatic target acquisition

ATACMS—Army Tactical Missile System

ATAF—Allied Tactical Air Force (NATO)

ATBM—advanced tactical ballistic missile

ATBMP—Army technology base master plan

ATC—assembly test chip

ATD—advanced technology demonstration

ATE—1. automatic test equipment 2. all-terrain equipment

ATES—autonomous targeting and engagement system

ATFD—absolute time-firing device

ATFES—Army tactical frequency engineering system

ATIS—air transportable instrumentation shelter

ATL—automatic tape library

atm—atmosphere (a unit of pressure equal to 1,013250 x 10⁶ dynes/cm²)

At/m—ampere-turn per meter

ATM—1. asynchronous transfer mode 2. anti-tactical missile

ATMS—automatic transmission measuring system

ATMX—atomic munition explosive rail transport car

ATP—1. alignment and testing procedures2. aiming, tracking, and pointing 3. advanced technology program

ATR—automatic target recognition

ATS—1. administrative terminal system (computers) 2. aerothermal structure 3. automatic transfer switch 4. action tracking system

ATSD/AE—Assistant to the Secretary of Defense for Atomic Energy

ATSDR—agency for toxic substances and disease registry

AT&T—American Telephone and Telegraph

ATTV—advanced teleoperator test vehicle

ATV—1. Army test vehicle 2. all-terrain vehicle

ATW—accelerator transmutation of nuclear waste

at. wt-atomic weight

a.u.-atomic unit

Au—gold (chemical unit)

AU—1. astronomical unit 2. authentication unit 3. acousto-ultrasonics

AUR-all-up-round

Auth Code—authorization code (or number)

AUTOCONET—automatic communications network

AUTODIN—automated digital information network

AUTOSEVOCOM—automatic secure voice communications

AUTOVON-automatic voice network

AUVS—Association of Unmanned Vehicle Systems

aux-auxiliary

aV-abvolt

AVA—Automated Vision Association (obsolete; now Automated Imaging Association)

AVC—automatic volume control

AVDS—Aviation Depot Squadron

avg/ave/av—average (avg is the most common: ave is used mostly in subscripts; av is seldom used)

AVI—audio video interleaved

AVIS—American visit (refers to a visit to the US by a member of the UK)

AVRADA—Avionics Research and Development Activity (Fort Monmouth, NJ)

AVS—1. access validation system 2. Avionics
Depot Squadron 3. American Vacuum Society

AVSCOM—Aviation Systems Command (Army)

AW-1. atomic weapon 2. atomic warhead

AWACS—airborne warning and control system

AWD—atomic weapon data (obsolete; now nuclear weapon data)

AWDS—automated weather distribution system

AWE—Atomic Weapons Establishment (England)

AWE(A)—Atomic Weapons Establishment, Aldermaston in Reading, Birkshire, England

AWE(B)—Atomic Weapons Establishment, Burghfield in Reading, Birkshire, England

AWG—American wire gage

AWLPG—Albuquerque (Operations) Workload Planning Guide (DOE)

AWMA—Air and Waste Management Association

AWOC—Alternate Wing Operations Center

AWRE—Atomic Weapons Research Establishment (England)

AWRS—average weighted residual squared

AWS—American Welding Society

AWSB-Atomic Weapons Safety Board

AWSC—analyst work space component

AWTG—atomic weapons training group

AWU—Association of Western Universities

AWVS—Albuquerque winter visibility study

AWWA—American Water Works Association

В

- **b—1.** barn (unit of area: 10^{24} cm²) **2.** bit (binary digit) bit is seldom abbreviated unless it is used with a prefix, as in 8 kb
- B-1. bel (logarithmic ratio) 2. brewster (optics)
 - 3. bomb (when used with a number, as in B-52
 - 4. bridge

BA-1. basic asssembly 2. budget authority

BAA—business area analysis

BAC—1. Boeing-Aerospace Company **2.** Budget Advisory Committee (SNL) **3.** bond additive corrections

BACT—best available control technology

BADT—best available developed technology

BA&E—Boeing-Aerospace and Electronics

BAF—backup alert force

BAFO-best and final offer

BAM—ballistic advance missile

BANCS—Bell Administration Network Communications System

BAO—Bendix Albuquerque Operations (obsolete; see KCD or AS/KCD)

BARS—1. Bell audit related system
2. behavioral anchored rating system

BART—1. best available retrofit technology **2.** Bay Area Rapid Transit (Sandia, CA)

BAS—1. Bell audit system **2.** Boeing advanced systems

BASIC—beginner's all-purpose symbolic instruction code (a computer language)

BASTEC—Bay Area Science and Technology Education Collaboration

BAT—best available technology

BBB—bisbenzimidazobenzophenanthroline (a polymer)

BBC—1. balanced biological community2. British Broadcasting Corporation

bbl-barrel

BCA—battery control area

bcc-body-centered cubic

BCC—Battery Control Center

BCD—binary coded decimal

BCH—Bose-Chadhuri-Hacqueghem

BCL—Battelle Columbus Laboratories

BCO—Bendix Connector Operations

BCR-bar code reader

BCTK—boron calcium chromate titanium potassium perchlorate

Bd—baud (a variable unit of data transmission speed-that is equal to one bit per second)

BDA—battle damage assessment

BDADS—beacon data acquisition and display system

BDAI—best demonstrated available technology

BDAT—best demonstrated available technology

Bde—brigade

BDM-Braddock, Dunn, and McDonald

BDP—battlefield development plan

BDS—1. British Defence (British spelling) Staff2. basic door structure

BDT—burst delay timer

BDU—1. bomb dummy unit 2. battle dress uniform

°Bé—degrees Baume (used in the Baumé temperature scale)

BE—binding energy

BECTU—Boeing Electrical Compatibility Unit

Benelux—Belgium, the Netherlands, and Luxembourg

BeO-beryllium oxide

BEP—Bureau of Engraving and Printing

BERC—Bartlesville Energy Research Center

BERL—Burner Engineering Research Laboratory (SNL)

BES—basic energy sciences

BET—Brunauer-Emmett-Teller (equation)

BETA—battlefield exploitation and target acquisition

BeV—billion electron volts (now obsolete; use GeV)

BFA—blank fire adapter

BFO—beat-frequency oscillator

BFOQ—bona fide occupational qualification

BFPC—Buildings and Facilities Planning Committee

BG-blanket gas

BGM—ballistic guided missile

BGS-below ground surface

Bi—biot (use aA, abampere, instead)

BIA—Bureau of Indian Affairs

BIC—Braduskill Intercept Concept

BIF-boiler/industrial furnace

BIM—1. ballistic intercept missile 2. barrier integrity monitor

BIRD—bilinear rotation decoupling

BIS—1. business information systems 2. bomb interface simulator

BISDN—broad-band integrated services digital network

BISMAPS—business information system modeling and planning system

BISP—business information systems program

BISS—base and installation security system

BISSPO—BISS Program Office

bit—binary digit (See b)

BIT—1. built-in test 2. boron injection tank

BITE-built-in test equipment

BIUA—bus interface unit, audio

BIUD—bus interface unit, digital

BIUD/M—bus interface unit, digital/modem

BIUM-bus interface unit, modem

BIX—byte information exchange

BKC—Bendix, Kansas City (obsolete; now the Kansas City Division of the Allied Signal Aerospace Corp. See KCD or AS/KCD)

bkgd-background

BKW-EOS—Becker-Kistiakowsky-Wilson equation of state

BL—baseline

BLID-buried line intrusion detector

BLM—Bureau of Land Management

BLS—1. Bureau of Labor Statistics 2. basic life support

BM-Bureau of Mines

BMC—Ballistic Missile Center

BMD-ballistic missile defense

BMDATC—Ballistic Missile Defense Advanced Technology Center

BMDO—Ballistic Missile Defense Office

BMDSCM—Ballistic Missile Defense System Command

BMEWS—ballistic missile early warning system

BMHA—building modifications hazards assessment

BMO—Ballistic Missile Office

BMP—1. battle management plan **2.** best management practice

BMS—1. balanced magnetic switch (or sensor)
2. battlefield management system 3. business management system

BN—battalion

BNA—Bureau of National Affairs

BNC—(connector developed by) Bayonet, Neill, and Concelman

BNFP—Barnwell Nuclear Fuel Plant (South Carolina)

BNI-Bechtel National, Incorporated

BNL—Brookhaven National Laboratory

BNWL—Battelle Northwest Laboratory

BO—budget outlay (or obligation)

B/O-blackout

BOA—basic ordering agreement

BOD—biochemical oxygen demand

BOLT—basic occupational literacy test

BOP—blowout prevention

BOR—burnout risk

BOSF—burnout safety factor

BOSFn—nominal burnout safety factor

bp—boiling point

BP—bandpass

bpF—boiling point (degrees Fahrenheit)

BPG—boron pyrolitic graphite

bpi-bits per inch

BPR—business process reengineering

bps-bits per second

BPS—1. boundary penetration sensor **2.** Boeing Petroleum Services

BPT—best practical technology

BPV—back pressure valve

Bq—becquerel (associated with ionizing radiation; now obsolete)

Br—bromine (chemical symbol)

B&R—budget and reporting

BRA—bomb relay assembly

BRADC—Belvoir Research and Development Center

BRC—below regulatory concern

BRDEC—Belvoir Research, Development, and Engineering Center

BRDF—bi-directional reflectance distribution function

BRES—buoy repeater system

BRI—basic rate interface

BRL—Ballistic Research Laboratory (Aberdeen, Maryland)

BRL-CAD—Ballistics Research Laboratory—computer-aided design

BRMD—Budget Resources Management Division (DOE)

BRP-Big Rock Point

b/s—bits per second; bps is preferred

BSD—business system design

BSI—British Standards Institute

BSO—Ballistic Systems Office (Air Force)

BSR—bulk shielding reactor

BSS—borehole seismic system

BSTS—1. burst surveillance and tracking system
2. boost surveillance and tracking system

BS&W—basic sediments and water

BTC—barbed tape concertina

BTDR—building time delay relay

BTE—battery timing equipment

BTEX—benzene, toluene, ethylbenzene, and xylene

BTI—Battery Technology Institute

BTL—Bell Telephone Laboratories, Inc. (use only informally, such as in internal memorandums; for formal reports, use Bell Laboratories or Bell Labs)

Btu-British thermal unit

BTX—benzene-toluene-xylene

BW—1. bandwidth 2. biological warfare3. bridgewire

BWG-Birmingham wire gage

BWM—balance with motion

BWO-backward-wave oscillator

BWR-boiling-water reactor

BWST—borated water storage tank

BY-budget year

BZ-buckled zone

 \mathbf{C}

c—centi- (a prefix indicating 10^{-2} , use mm instead)

C-1. capacity 2. capacitance 3. circumference

4. coulomb (quantity of electricity in electrons)

5. Confidential

°C—degrees Celsius

C²—command and control

C³—command, control, and communications (also CCC)

- C⁴—command, control, communications, and computers
- ca-circa (use with dates only)
- Ca-calcium
- CA—1. custodial agent 2. corrective action3. clean air 4. contamination area 5. cooperative agreement
- C/A Code—coarse acquisition code
- CAA-1. Clean Air Act 2. critical assembly area
- CAAMS—criterion affirmative action management system
- **CAAPS**—criterion affirmative action planning system
- CAB-Civil Aeronautics Board
- CABAL—calcium-modified boroaluminate
- CABRA—Copper and Brass Research Association
- CACC—Credibility Assessment Coordinating Center
- **CACDA**—Combined Arms Center (or Combat)

 Development Activity (Fort Leavenworth, KS)
- **CACECO**—calculation (of sodium spills) in cells for containment (a computer program)
- CAD—1. computer-aided design 2. corrective action design
- CAD/CAM—computer-aided design/ computer-aided manufacturing
- CADD—computer-aided design and drafting
- CAE—computer-aided engineering
- CAE/RS—computer-aided engineering/rocket system
- CAES—compressed-air energy storage
- CAESAR—catalytic enhanced solar absorption receiver

- **CAF**—command authority function
- CAFMS—computer aided air force management
- CAG—customer advisory group
- **CAGEC**—commercial and government entity code
- **CAGINS**—center advisory group for information systems
- CAI—1. computer-aided instruction 2. certified asbestos inspector
- CAIN—controlled access by individual number
- **CAIRS**—computerized accident/incident reporting system
- **CAIS—1.** coded aperture imaging system **2.** Chief Architect of Information Systems
- cal—calorie (joule is preferred)
- **CAL—1.** Conversational Algebraic Language (computers) **2.** completely assembled for launch
- calc-calculated
- CALS—computer-aided acquisition and logistics support
- **CALSON**—computer-aided acquisition and logistic(s) support operational network
- CAM—1. completely assembled missile
 2. continuous air monitor 3. computer-aided manufacturing 4. computer-assisted makeup
 5. content-addressed memory
- CAMA—centralized automatic message accounting
- CAMAS—central alarm monitoring and assessment system
- CAMD—computer-aided molecular design
- **CAMI**—Civil Aeromedical Institute

- **CAMP—1.** crypto algorithm message processor
 - 2. Capital Assets Management Program
 - 3. Corporate Asbestos Management Program
- **CAMPS**—computer assisted mission planning system
- **CAMS**—cybernetic anthropomorphous machine system
- **CANDU**—Canadian deuterium uranium (a reactor)
- **CAORA**—Combined Arms Operation Research Activity (Army)
- CAP—1. code-activated processor 2. computer-aided plotting 3. corrective action plan 4. consolidated action plan
- CAPE—capability and proficiency evaluation
- **CAPRS**—compensation and performance review system
- CAPS—computer automated publishing system
- CAR—corrective action report
- CARC—containment air recirculating and cooling
- CARD—1. computer-aided remote driving2. Citizens for Alternatives to RadioactiveDumping
- CART—cloud and radiation testbed
- CAS—1. calibrated airspeed 2. compressed-air storage 3. close air support 4. central alarm station 5. chemical abstract services 6. Condition Assessment Survey 7. cost accounting standards 8. completely assembled for strike
- CASE—computer-aided software engineering
- CASM—Community Academy for Science and Mathematics
- **CASP**—comparative analysis of standards program (computers)
- **CASR**—Center for Aviation System Reliability

- cat-category
- **CAT—1.** clear-air turbulence **2.** computer-aided tomography **3.** Conductor Analysis Technologies, Inc.
- CATCOMS—credibility assessment team communications system
- **CATNIP**—computer analysis tool for normal impact penetration (computers)
- **CATS—1.** computer-assisted tracking system **2.** computerized appraisal tracking system
- **CATV—1.** community antenna television **2.** cable television
- CAW-channel address word
- CBA—compressed breathing air
- CBC—cipher-block chaining
- CBD—Commerce Business Daily
- **CBI—1.** computer-based instruction **2.** confidential business information **3.**Compton backscatter imaging (or inspection)
- **CBM**—cooperative business management
- **CBP**—Chicago bulletproof (doors)
- CBR—chemical, biological, radiological
- CBT—computer-based training
- cc—1. cubic centimeter (use cm³ instead)2. carboncarbon (composite)
- c.c.—complex conjugate
- CC—1. core competencies 2. counter-countermeasure (see CCM) 3. Coronado Club
 4. contamination control 5. Computer Committee 6. carbon copy
- C-C-could-to-cloud
- CCA—circuit card assembly
- **CCAD**—command-coded arming device

- CCB—1. Configuration Control Board 2. Change Control Board
- CCC—1. command, control, and communications (also written as C³)
 Crisis Coordination
 Center 3. cockpit command disablement
- CCD—1. charge-coupled device 2. camouflage, concealment, and deception (sometimes written as CC&D) 3. cockpit command disablement
- **CCDF**—complementary cumulative distribution function
- **CCE**—Center for Computational Engineering **2.** certification of claim for exemption
- CC&E—contractor's choice and expense
- CCF—1. common cause failure 2. central computing facility
- CCHD—central computing help desk
- **CCHP**—Corporate Chemical Hygiene Plan
- CCIO—contractor counter-intelligence officer
- CCIP—core competency in-reach project
- **CCIR**—Consultative Committee on International Radio (European Standard)
- **CCITT**—Consultative Committee on International Telephone and Telegraph
- CCIU-command and control interface unit
- CCL—commodities control list
- CCM--1. central control module 2. countercountermeasure (see CC)
- CCN—central computing network
- CCO-1. chargeable cost objective 2. corporate contractual obligation
- **CCP**—controlled component protection
- **C/CPIP**—Code of Conduct Personal Integrity Program

- **CCPDS**—Command Center processing and display system
- CCR—1. cyclic catalytic reforming 2. corporate customer requirement
- **CCS**—Central Control Station
- CCS²—command and control subordinate system
- CCST—center for compound semiconductor technology
- **CCT**—current contrast imaging
- **CCTC**—Coyote Canyon Test Complex
- CC test—component compliance test
- CCTV-closed-circuit television
- CCVT—coupling capacitor voltage transformer
- ccw-counterclockwise
- CCW—1. channel command word 2. component cooling water
- cd—candela (a measurement of luminous intensity)
- CD—1. computer diode 2. command disable (or disablement) 3. command destruct 4. control drawing 5. compatibility drawing (or document) 6. control document (as in CD453826) 7. consent decree
- C/D-charge/discharge
- CDA—Core Disruptive Accident (see HCDA)
- **CDAM**—crypto device adapter modules
- CDAS—classified document accountability system
- CDC—1. cumulative defects criteria 2. ControlData Corporation 3. Center for DiseaseControl
- CDD—conventional (munition) demilitarization and disposal (technology)

- **CDEC**—Combat Developments Experimentation Command (Army)
- CDF—1. central distribution facility 2. combustion dynamics facility 3. core damage frequency
- cd/ft2—candela per square foot
- CDI-common data input
- CDIRS—common data input and retrieval system
- CDIU—control display interface unit
- CDL—commercial driver's license
- CDM—1. continuous dispensing masker 2. codedivision multiplex
- cd/m²—candela per square meter
- CDMS—1. computerized document management system 2. central data management system
- CDOCS—classified document control system
- **CDOS**—Cromemco disk operating system
- CDPS—CMS data production system
- CDR—1. critical design report 2. complete design release 3. conceptual design review
- C&DR—characterization and development report
- CDRL—contractor data requirements list
- CD/ROM-compact disk/read only memory
- CDS—1. command disablement system 2. control and display system
- CDT—corporate diversity team
- CDU—capacitor discharge unit
- Ce-cerium (chemical symbol)
- **CE—1.** Corps of Engineers **2.** capital equipment **3.** consistently exceeds **4.** communications electronics **5.** combustion engineering

- **CEA**—American translation from French French Atomic Energy Commission
- **CEARP**—Comprehensive Environmental Assessment and Response Program (DOE)
- **CEB**—corporate ethics board
- CEC—1. Capital Equipment Committee
 2. Computing Education Center 3. cation exchange capacity 4. Commission of European Communities
- **CECOM**—Communications Electronics Command (Army)
- **CEDE**—committed effective dose equivalent
- CEE—courier elevated eyes
- **CEEEC**—committee on energy, environment, and economic competitiveness
- **CEG**—corporate ergonomics group
- CEES—1. camouflage effectiveness evaluation system 2. committee on earth and environmental sciences
- **CEG**—corporate ergonomics group
- CEL—1. Civil Engineering Laboratory (Navy)2. commercial equipment list 3. channel effluent limit
- CELS—coded explosive logic system
- **CEM—1.** channel electron multiplier **2.** crew escape module **3.** continuous emissions moni-tor
- **CENEF**—Joint US/Russian Center for Energy Efficiency
- **CENSEI**—Center for System Engineering and Integration
- **CENTAG**—Central Army Group (NATO)
- CENTCOM-Central Command
- **CENTO**—Central Treaty Organization

CEO—chief executive officer

CEOI—communications/electronics operating instructions

CEP—1. circular error probability (ICBM impact accuracy)
2. Concept Evaluation Program
3. Career Exploration Program (Alb. Public Schools)
4. catalytic extraction processing

CEPP—chemical emergency preparedness program

CEQ—Council on Environmental Quality

CER—complete engineering release

CERCLA—Comprehensive Environmental Response, Compensation, and Liability Act

CERL—1. commercial equipment requirements list 2. Construction Engineering Research Laboratory

CERN—1. Conseil Européen Pour Recherches Nucléaires (Translation: European Council for Nuclear Research/Switzerland) 2. Controller Establishment for Nuclear Research (UK equivalent of DOE)

CERT—computer emergency response team (DoD)

CES—code enabling switch (or system)

CEWG—containment and effects working group

cf—compare

Cf—californium (chemical symbol)

CF-1. customer funded 2. containment failure

CF,—commodities control list

CFA—1. covering force area 2. central facility area 3. cross-field amplifier 4. cognizant federal agency

CFC—1. Combined Forces Command (Korea)2. chlorofluorocarbon (or chlorinated fluorocarbon)3. Conax Florida Corporation

CFD—computational fluid dynamics

CFE—conventional forces in Europe

cfm—cubic feet per minute (ft³/min preferred)

CFM-contamination-free manufacturing

CFMRC—Contamination Free Manufacturing Research Center

CFO—Chief Financial Officer

CFPO—customer funded program office

CFR—1. commercial fast breeder reactor 2. Code of Federal Regulations

CFRD—confidential, formerly restricted data

cfs—cubic feet per second (ft³/s preferred)

CFS—conventional firing set

CFTM—captive and flight test missile

CFU-central function unit

CFS—core flood system

CFY—current fiscal year

cg-centigram

CG-1. center of gravity 2. Commanding General

C-G-cloud-to-ground

CGA—1. carrier group alarm 2. color-graphic adapter

CGC—color-graphics controller

CGI—1. computer graphics interface 2. combustible gas indicator

CGM—computer graphics metafile

cgs—centimeter-gram-second (use of all units particular to this system is discouraged by SI)

CGS—CONUS Ground Station

- **CHAERSE**—Center for Hungarian-American Environmental Research Studies and Exchange
- CHAMMP—computer hardware, advanced mathematics and model physics
- chan-channel
- CHARMS—computerized hazard and recordmanagement system
- CHC—chlorohydrocarbons (or chlorinated hydrocarbons)
- CHE—conventional high explosive (see IHE)
- **Chelyabinsk-70**—All Russian Scientific Research Institute for Technical Physics: see VNIITF.
- **ChemIServe**—Chemical Information Service (see CIS)
- **CHEMKIN**—chemical kinetics (computers)
- CHEMS—chemical hazards emergency management system
- CHR-confinement heat removal
- **CHTM**—Center for High Technology Materials
- CH-TRU—contact-handled transuranic (waste)
- Ci—curie (unit of radioactivity)
- CI—1. confident informants 2. counterintelligence
- C³I—command, control, communications, and intelligence
- CIA—1. Central Intelligence Agency 2. control indicator assembly
- CIAC—computer incident advisory capability (DOE)
- CIB—Centralized Intercept Bureau

- CIC—1. COMSEC intelligence controller2. Combat Information Center 3. compensated ion chamber
- CICS—customer information control system
- CID—charge injection device
- CIE—1. Commission Internationale de l'Eclairage 2. cost impact estimate
- CIHS—classified information handling system (European TV standards)
- CIL—1. critical items list 2. computer inoperative limits
- CIIMA—contractors image and information management association
- CIK—crypto ignition key
- CILRT—containment integrated leak rate test
- CIM—1. computer integrated manufacturing 2. corporate information management
- **CIMET**—Center for Intelligent Manufacturing and Environmentally Conscious Technology
- **CINC—1.** Commander-in-Chief **2.** Commander-in-Charge
- CINCADCOM—Commander-in-Chief, Aerospace Defense Command
- **CINCAFCENT**—Commander-in-Chief, Allied Forces Central (Europe)
- **CINCEASTLAND**—Commander-in-Chief, East Atlantic
- CINCELM—Commander-in-Chief, Eastern Atlantic and Mediterranean (Navy)
- CINCEUR—Commander-in-Chief, Europe
- CINCFE—Commander-in-Chief, Far East
- **CINCLANT**—Commander-in-Chief, Atlantic (US)

CINCMEAFSA—Commander-in-Chief, Middle East, Africa (South of Sahara), and Southern Asia

CINCNORAD—Commander-in-Chief, North American Air Defense

CINCPAC—Commander-in-Chief, Pacific Command (US)

CINCRED—Commander-in-Chief, Readiness Command

CINCSPACE—Ccommander-in-Chief for Space

CINCSPECOMME—Commander-in-Chief, Specified Command, Middle East

CINCUNC—Commander-in-Chief, UN Command

CINCUSAEUR—Commander-in-Chief, United States Army, Europe

CINCUSNAVEUR—Commander-in-Chief, United States Navy, Europe

CINDY—computerized internal dosimetry (software package)

CIO-Chief Information Officer

cir-circuit (also ckt)

cir mil—circular mil (also written as cmil)

CIS—1. Commonwealth of Independent States2. classified information system 3. Chemical Information Service (also called ChemIServe)

CIT—1. compact ignition tokamak 2. critical incident technique

CIVA—charge-induced voltage alteration

CIWS—close-in weapon support

CJCS—Chairman, Joint Chiefs of Staff

ckt—circuit (also cir)

Cl—chlorine (chemical symbol)

CL-centerline

CLAZAS—clad axial (Z-direction) motion in subassemblies (computers)

CLC—1. central (or command) logic and control 2. current-limiting conductor

CLCS—closed-loop control system

CLEO-classified energy on-line

CLERVER—clients and servers (SNL software)

CL&F—common look and feel

CLIF—Chemistry Lirrac Irradiation Facility

CLNS—connectionless network services

CLP—contract laboratory program

CLS-central locator system

cm-centimeter

c.m.—center of mass

cm²—centimeter squared

cm³—cubic centimeter

c/m²—incorrect; see cd/m²

Cm—Curium (chemical symbol)

CM—1. container module 2. countermeasure3. core melt 4. configuration management

CMA—Chemical Manufacturers Association

CMAS—classified material accountability system

CMC—1. central monitor control 2. Cheyenne Mountain Complex 3. Cooperative Monitoring Center

CMCS—continuous monitor and control system

CMD—1. command **2.** Configuration Management Document (a US-UK program)

CME—construction management engineer

cmf—circular mils/foot (electrical conductivity)

CMF—common-mode failure

CMFD—compressed magnetic field device

CMG—control moment gyros

CMGS—cruise missile guidance set

CMI—cruise missile interface

cmil—circular mil (also written as cir mil)

CMIS—crisis management intercom system

CMM—capability maturity model

CMOS—1. complementary metal-oxide semiconductor (Fast Adder) 2. complementary metal-oxide on silicon

CMP—1. Center for Materials Production **2.** container module packaging

CMPLIS—continuous monitoring pH log-in system

cm/s—centimeters per second

CMS—1. control, monitor, and support 2. common mapping system 3. code (or case) management system 4. corrective measures study 5. canister monitoring system

CMSD-code-multiplier sensor data

CMT—1. Center for Microelectronics Technologies 2. Crisis Management Team

CMTF-Collector Module Test Facility

CMU—control monitor unit

CMV—1. commercial motor vehicle 2. countermeasures verification

CN-1. cemetery network 2. counter narcotics

CNC—computer numerically controlled

CNCE—communications nodal control element

CNDE—Center for Nondestructive Evaluation

CNES—Centre National d'Etudes Spatiales

CNF-1. cost: no fee 2. central network facility

CNHR—containment atmosphere heat removal

CNO—Chief of Naval Operations

CNRR—containment radioactivity removal

CNS—centralized nuclear surety

CNSAC—Center for National Security and Arms Control

CNWDI—critical nuclear weapon design information

Co—cobalt (chemical element)

CO—1. construction observer 2. contracting officer

CO₂—carbon dioxide

COA—1. charts of accounts 2. customer order administration

COAT—career opportunity for advancement training

coax—coaxial (cable)

COB—1. coordination of benefits 2. close of business 3. computer-on-a-board

COBOL—Common Business-Oriented Language (computers)

COBRA—1. Consolidated Omnibus Budget Reconciliation Act **2.** Calculation of Flow in Rod Bundle Reaction Assemblies (computers)

COBRA DANE—Intelligence Phased Array Radar at Shemya, Alaska

COC—1. code of conduct 2. chain of custody 3. contaminants of concern

COCA—1. consent order and compliance agreement

COD—1. crack-opening displacement 2. chemi-cal oxygen demand

COE—1. Corp of Engineers **2.** certificate of equivalency

COEA—cost and operational effectiveness analysis

COED—computer-operated electronic display

COEES—Central Office equipment engineering system

COE/EUO—European Corps of Engineers

coef-coefficient

COGO—coordinated geometry (computers)

COGS—continuous orbital guidance system

COI—certificate of inspection

COIN—counterinsurgency

Coker-Cokernel

COLA—cost of living adjustment

colog-cologarithm

COM—computer-output microfilm

COMET—computer-operated management evaluation technique

COMINT—Communications Intelligence (computers)

COMM—communications

COMMZ—communications zone

COMRADEX—effects of containment and meteorology on the environmental radiation exposure resulting from a power reactor accident (computers)

COMSAT—communication satellite

COMSEC—communications security

COMTEN—Communications 10

COMUSK—Commander, US (Forces) in Korea

COMUSMACV—Commander, US Military Assistance Command, Vietnam

COMUX—combinatorial multiplex

CON—California open network

CONAD—Continental Air Defense (Command)

CONARC—Continental Army Command

conc-concentrate

const-constant

cont-1. continuous 2. continued

CONTRN—a computer language

CONUS—contiguous United States

conv-converter

COO—conduct of operations

COPE—critically ordered path evaluator (computers)

COQ—cost of quality

CORBA—common object request broker architecture

CORCON—core/concrete (interaction code)

CORDIVEM—Corps/Division Evaluation Model

CORRTEX—continuous reflective radius time experiment

cos-cosine

COS—1. Cray operating system **2.** Chief of Staff

COSAL—coordinated shipboard/activity (allowance) list

cosh—hyperbolic cosine

COSL—cooled optically stimulated luminescence (see OSL)

COSMIC—common systems main interconnecting

COSMOS—computer system for mainframe operations

cot—cotangent (sometimes abbreviated as ctg)

COT—consolidated operability test

cotar—correlated orientation tracking and range

cotat-correlated tracking and triangulation

coth—hyperbolic cotangent

COTS—commercial off-the-shelf

COV—counter-obstacle vehicle

COVAWT—cooperative vertical-axis wind turbine

COZI—communication zone indicator

cp—1. chemically pure 2. candlepower

cP-centipoise

CP—1. carbon phenolic 2. control point3. command post

CPA—carboxypeptidase (a digestive enzyme)

CPAF—cost plus award fee

CPC—compound parabolic concentrator

CPCA—Committee for Persons with Challenged Abilities (DOE)

CPCM—certified professional contract managers

cpd—contact potential difference

CPD—1. central pulse distributor 2. continuing professional development

CPE-command post equipment

CPFF—cost plus fixed fee

CPG—Cummings Power Generation, Inc.

CPI—characters per inch

CPIA—Chemical Propulsion Information Agency

CPIF—cost plus incentive fee

CPIIC—Corporate and Personal Integrity Investigative Committee

C-PIP—Corporate and Personal Integrity Program

CPJ—chlorinated polyethylene jacket

CPL—confinement protection limit

cpm-1. cycles per minute 2. counts per minute

CPM—1. critical path method (computers)2. Center for Project Management

CPMS—1. cable pressure monitoring system **2.** criteria pollutant monitoring station

CPPM—computer protection program manager

CPPSR—contractor personal property systems review

CPR—cardiopulmonary resuscitation

CPS—1. cycles per second; use Hz instead2. certified professional secretary

CPSA—Consumer Product Safety Act (1972)

CPSR—contractor purchasing system review

CPSRC—Corporate and Personal Standards Review Committee

CPT—current procedural terminology

CPU—central processing unit

CPV—command post vehicle

CPX—command post exercise

- **CQA**—Chairman's Quality Award (AT&T)
- **CQE—1.** certified quality engineer **2.** Corporate Quality Excellence (Program)
- **CQI**—continuous quality improvement
- CQM—certification, qualification, and monitoring
- Cr-chromium (chemical symbol)
- CR—1. catalytic reforming 2. contractor (also CTR) 3. contact resistance 4. change requisition 5. corporate requirements 6. community relations
- CRA-Civil Rights Act
- **CRADA**—Coorperative Research and Development Agreement
- CRBRP—Clinch River Breeder Reactor Plant
- **CRC—1.** Control and Reporting Center **2.** cyclic redundancy check (or code) (computers)
- **CRCM**—Comprehensive Regional Center for Minorities
- **CRD—1.** civilian research and development **2.** confidential restricted data
- **CRDEC**—Chemical Research, Development, and Engineering Center
- **CREG**—controlled reluctance eddy-current generator
- **CRF—1.** Combustion Research Facility **2.** central response force
- **CRFP**—Cooperative Research Fellowship Program
- CRL—Cook Research Laboratories
- CRM—1. chemical remanent magnetization
 2. Center for Radiation-Hardened Microelectronics
 3. Corporate Requirements Management
 4. corrective repair maintenance
 5. count rate meter
- CRO—cathode-ray oscilloscope

- **CRP**—Community Relations Plan
- **CRRES**—combined release and radiation effects stellite
- CRT—1. corporate requirements tracking
 2. cathode ray tube 3. coolant return tank
- **CRTF**—central receiver test facility
- CRWM-civilian radioactive waste management
- Crypto—communications security keying material
- CRZ—contamination reduction zone
- cs or cS-centistoke
- c/s—cycle(s) per second (use Hz instead)
- Cs—cesium (chemical symbol)
- CS—1. can select 2. compound-semiconductor 3. communications satellite 4. core support
- C-S—customer-supplier
- C/S—containment and surveillance
- C³S—command, control, and communications system
- C⁴S—Center for Command, Control and Communications Systems
- CSA—1. Canadian Standards Association
 2. canned subassembly 3. compliance schedule
 agreement (or approval) 4. Command Support
 Area
- **CSAC**—Computer Security Advisory Committee
- **CSAMT**—controlled-source audio-frequency magnetotelluric
- Csat—customer satisfaction
- csc-cosecant
- CSC—1. Central Security Control 2. computer software component 3. computer systems coordinator

- csch-hyperbolic cosecant
- CSCI—computer software configuration (or component) item
- CSCS—cost and schedule control systems
- C/S CSC—cost and schedule control systems criteria
- CSD-control and status display
- **CSDP**—Continental Scientific Drilling Program
- CSEL—combat survivor/evader locator
- CSFA—College of Santa Fe/Albuquerque
- CSG—combinatorial solid geometry
- CSIL—critical and sensitive information list
- CSIS—Center for Strategic and International Studies
- CSIU-coded switch interface unit
- CSL—contractor standards laboratory
- CSM—1. computer security manager 2. core support module
- CSMA/CD—carrier sense with multiple access with collision detection
- **CSNI**—Committee on Safeguards of Nuclear Installations
- **CSOC**—Consolidated Space Operations Center
- CSP—1. chopped silica phenolic 2. control switching point 3. certified safety professional
- **CSPD**—career services for persons with disabilities
- CSR-1. current situation room 2. computer security representative 3. customer service request 4. customer service representative
- CSRL—1. common strategic rotary launcher2. Compound Semiconductor Rresearch Laboratory

- CSRS—coherent Stokes-Raman spectroscopy
- CSS—1. coded switch set (or system)
 2. component support structure 3. US designator for Chinese surface-to-surface missile
- CSSA—Crop Science Society of America
- CSSC—coded switch set controller
- **CSSM**—computer security site manager
- CSSO—computer systems security officer
- **CST**—crystalline silicotitanate
- CSU—customer service unit
- CSW-channel status word
- **CSWS**—Command Support Weapon System
- CT—1. cryoresistive transmission 2. current transformer 3. counter terrorism 4. computed tomography (microscopy)
- CTA—Central Training Academy
- **CTAC**—Community Training and Assistance Center (Boston)
- **CTAQ**—Center for Transportation and Air Quality
- CTB—comprehensive test ban
- CTBN—carboxy terminated polybutadine acrylonitrile
- **CTBT**—Comprehensive Test Ban Treaty
- CTCA—communicated threat capability assessment
- CTD—1. corporate training and development 2. charge transfer device 3. cumulative trauma disorder
- CTE—1. component test equipment
 2. coef-ficient of thermal expansion

CTF—1. Central Technical File 2. Coyote Test Field

CTFC—Coyote Test Field Complex

ctg-cotangent (see cot)

CTG—control technique guidelines

CTH—a three-dimensional shockwave physics code developed at SNL

CTL—combat training launch

CTM-collimation test module

CTMS—carrier transmission maintenance system

CTOC—Command Tactical Operations Center

CTP—Comprehensive Test Plan

CTR—1. controlled thermonuclear reactor
2. contractor 3 center 4. critical temperature ratio

CTS—1. cable termination shelter
2. carpal tunnel syndrome

CTSS-CRAY time-sharing system

CTTF—Countermine Test Track Facility

CTU—1. compatibility test unit 2. calibrator test unit

CTW—clean tactical weapon

CTZ—Corps Tactical Zone

cu—cubic

CUBE—computer use by engineers

CUCV—commercial utility cargo vehicle

CUSP—Center for Ultraclean Semiconductor Processing

CUSR—custodial unit status report

CUSUM—cumulative summation

CV-CryptoVariable

CVC—1. conserved vector current 2. chemical vapor composites

CVCS—chemical volume and control system

CVD—1. chemical vapor deposition 2. copper vapor deposition

CVP—countermeasures verification program

CVR—1. Center for Verification Research2. current viewing resistor

CVS—composition variability study

CVT—current-viewing transformer

cw or CW-1. continuous wave 2. clockwise

CW—1. chemical warfare 2. chemical weapon3. conventional weapon 4. confined workspace

5. clean water

CWA—1. Communication Workers of America **2.** Clean Water Act

CWDR—chemical waste disposal request

CWE—conventional weapons effects

CWGM—cooling water gamma monitor

CWL—chemical waste landfill

CWMP—Chemical Waste Management Plan

CWS—contaminated water storage

cwt-hundredweight

CWW-compressed work week

CX—categorical exclusion

CY—calendar year

CYBL—cylindrical boiling

CYLTRAN—an electron/photon transport code

CZMA—Coastal Zone Management Act

D

d-deci- (a prefix indicating 10⁻¹)

d-1. density 2. day 3. deuteron or deuton

D—1. debye (unit of electric dipole moment that equals 10⁻¹⁸ Franklin cm) 2. deuterium 3. dee (in a cyclotron) 4. diopter (optics) 5. darcy (unit of permeability; see mD) 6. drawing (standards) 7. destructive (tests)

da—dry air

DA—1. Department of the Army **2.** double amplitude **3.** Design Agency

D/A-digital to analog

DAASY—data acquisition and analysis system

DAB—data acquisition box

DAC—1. data acquisition and control (SCCS)
2. digital-to-analog converter 3. derived air concentration 4. Defense (Nuclear Agency) auxiliary closure

DACCC—Dispersed Aircraft Cell Control Center

DADS—data acquisition and display system

DAF—Device Assembly Facility

DAGS—data-gathering system

DAM—1. device adapter module **2.** data acquisition module

DAMA—demand activated manufacturing architecture

DAO—Dayton Area Office (DOE)

DAP—diallylphthalate

DA/PA—Design Agency/Production Agency

DARCOM—1. Development and Readiness Command (Army) 2. Development and Research Command

DARHT—dual-axis radiograph hydrotest

DARPA—Defense Advanced Research Projects
Agency (obsolete; now the Advanced Research
Projects Agency)

DAS—data acquisition system

DASA—Defense Atomic Support Agency (obsolete; now Defense Nuclear Agency)

DASC—Direct Air Support Center

DASD—direct-access storage device (computers)

DASMA—Deputy Assistant Secretary for Military Application (DOE)

DASO—demonstration and shakedown operations

DAT—1. diversity action team **2.** digital audio tape

DAU—data authentication unit

DAVID—digital automatic video intrusion detection

dB-decibel

DB-depth bomb

dBA—A-weighted decibel

DBA—1. derived air concentration 2. database administrator 3. doing business as (usual)4. design basis accident

DBF—design basis fire

dbi—decibels for an isotropic source

dBm-decibel to 1 mW

DBMS—database management system

DBR—distributed Bragg reflectors

DBS—debris barrier system

dBSPL—decibel sound pressure level

dc-direct current

DC—1. data concentrator (computers) 2. direct charges 3. direct chill

D&C—drilling and completion

DCA—1. Defense Cooperation Agreement2. dual-capable aircraft3. DefenseCommunications Agency

dc/ac—direct current/alternating current

DCC—dialog corporate connection (a library retrieval system)

DCER—design criteria engineering release

DCF—dose conversion factor

DCG-Derived Concentration Guide

DCH—direct containment heating

DCN—document change notice

DCO—detonator circuit ohmmeter

DCP—device control program

DCPC—dielectric compound parabolic concentrator

DCPG—defense communications planning group

DCR—1. data communication request 2. design change request

DCS—1. Document Control Station 2. drawing (or document) control system 3. defense communications system 4. Deputy Chief of Staff

DCSA—dependent care spending account

DCSC—Desktop Computer Support Center

DCSRDA—Deputy Chief of Staff, Research Development and Acquisition (Army)

DCTL—direct-coupled transistor logic

DCU-data control unit

DCVW-direct current voltage withstanding

DCWV—direct-current working volts

DD-double density

D/D-disablement/denial

D&D—decontamination and demolition

DDA—digital differential analyzer

DDE—dynamic data exchange

DDESB—DoD Explosives Safety Board

DDI—Decisions and Designs, Inc.

DDN—defense data network

DDO—Deputy Director of Operations

DDS—1. detailed design specification 2. direct digital synthesizer

DDSA—dual-dual stronglink assembly

DDT—1. design demonstration testing **2.** deflagration-to-detonation transition **3.** dichloro-diphenyl/trichloroethane

DDTA—derivative differential thermal analysis

DE—disablement equipment

DEA—Drug Enforcement Agency

DEAR—DOE Acquisition Regulation

DEB—depolarizer electrolyte binder

DEC—Digital Equipment Corporation

deca—a prefix denoting 10 (a variant of deca is deka)

DECANAL—decision analyses (computers)

DECnet—Digital Equipment Corporation Network (computers)

decon-decontamination

DECtalk—a speech synthesizer

DECUS—Digital Equipment Corporation User Society

DEF—data exchange format

DEFCON—defense readiness condition

DEFORM—fuel deformation calculation (computers)

deg—degrees (use the symbol with numbers: 32°C)

DEGS—diethyl glycol succinate (explosive)

DELPHI—discriminating electrons with laser photon ionization

DELSOL—"of the sun (span)" (computers)

DEMO—demonstration plant analysis (computers)

DEMP—dispersed electromagnetic pulse

DEP—1. Dental Expense Plan 2. diversified equity portfolio

der or deriv-derivative

DER—1. development engineering release **2.** designated engineering representative

DES—data encryption standard

det-1. detonator 2. determinant

dev-deviation

DEW—direct energy weapons

df—degree of freedom (also DOF)

DF-1. deuterium fluoride 2. direction finder

DFD—1. demolition firing device **2.** data flow diagram

2-DFFT—two-dimensional fast Fourier transform

DFM—design for manufacturing (obsolete; now DPR: design for product realization)

DFP—defensive fighting position

DFTP—detailed flight test plan

DFWM—degenerate four-wave mixing

dg-decigram

DG-design guide

DG/DAC—data general/data acquisition and control (a subsystem of AIDS)

DGE—1. DADS graphic environment 2. Division of Geothermal Energy (DOE)

DGP—data-gathering panel

DGSWS—Director General of Strategic Weapon System

DGZ—designated (or desired) ground zero

DHE or DHX—dump heat exchanger

DHFR—dihydrofolate reductase

DHLW—defense high-level waste

DHM—dexterous hand master

dHvA—de Haas van Alphen (effect)

D&I—disassembly and inspection

dia or diam-diameter

DIA—Defense Intelligence Agency

DIAL—differential absorption LIDAR

DICE—defensive information to counter espionage

DID—1. direct inward dialing 2. dynamic identification 3. defense in depth 4. data item description 5. display interface device

DIFA—digital impedance for Faradaic analysis

DII—defense industry initiative

DIIC—dielectric insulated integrated circuit

dim-dimension

DIP—dual in-line package

DIS—1. Defense Investigative Service **2.** design information summary

DISA—Defense Information Systems Agency

DISC—direct-injected stratified charge

DISIDS—display and information distribution system

dis/s—disintegrations per second

DIU—data interface unit

div-1. divergence 2. division

DJTA—development joint test assembly

dl-dead load

dL-deciliter

DL-door lock

DLC—1. Diversity Leadership Committee2. data link control

DLCF-data link control field

DLPI—discrete line PAL interface

DLR—American translation: German research establishment for Aeronautics and Astronautics

DLWG—damage limitation working group (obsolete; see CEWG)

dm-decimeter

DM-department manager

DMA—1. Division of Military Application (now Assistant Secretary for Defense Programs: ASDP)
2. Defense Mapping Agency
3. direct memory access
4. Director of Military Affiliations
5. diagnosis of multiple alarm (system)

DMC—digital microcircuit

DMF—Data Management Facility

DMM—design methodology manager: a tool for defining and using process flows through a graphical user interface

DMP—discrepancy microprocessor

DMR—database management routine

DMS—data (or document) management system

DMSP—1. Defense Meteorological SatelliteProgram 2. Defense Meteorological SupportProgram

DMTS—distinguished member of technical staff

DMZ—demilitarized zone

DNA—Defense Nuclear Agency

DNA/FC—Defense Nuclear Agency/Field Command

DNB—departure from nucleate boiling

DNFSB—Defense Nuclear Facilities Safety Board

DNI—dinitroimidazole

DNSI—defense nuclear surety inspection

DNO-do not operate

DNT—dinitrotoluene (explosive)

DNTS—distributed network terminal server

DOB—1. depth of burst **2.** dispersed operating base

DOBIS—Dortmunder Bibliothers Systems (Library program to retrieve references)

DOC—Department of Commerce

DOCUSAR—document storage and retrieval

. DoD—Department of Defense

- DOD—depth of discharge
- **DoDD**—Department of Defense Directive
- **DOE**—Department of Energy
- DOE/AAO—Department of Energy/ Amarillo Area Office
- DOE/AL—Department of Energy/ Albuquerque
- **DOE/ALO**—Department of Energy/ Albuquerque Operations Office
- **DOE/AN**—Department of Energy/Arms (Control and) Nonproliferation
- **DOECN**—Department of Energy/ Communications Network
- **DOE/ER**—Department of Energy/ Energy Research
- **DOEESC**—Department of Energy/ Electrical Safety Committee
- DOE/FE—Department of Energy/Fossil Energy
- **DOE/ID**—Department of Energy/Idaho (Field Office)
- **DOE/KAO**—Department of Energy/ Kirtland Area Office
- **DOELAP**—Department of Energy Laboratory Accreditation Program
- **DOE/MA**—Department of Energy/ Military Applications
- **DOENTS**—Department of Energy, National Telecommunications Systems
- **DOE/NV**—Department of Energy/Nevada Operations Office
- **DOE/OSS**—Department of Energy/Office of Safeguards and Security
- **DOE/RFAO**—Department of Energy/ Rocky Flats Area Office

- **DOE/SRO**—Department of Energy/ Savannah River Operations Office
- **DOE/WPD**—Department of Energy/ Weapons Program Division
- DOF—degree of freedom (also df)
- **DOI—1.** direct optical initiation **2.** Department of the Interior
- **DOIT**—develop on-site innovative technologies
- **DOJ**—Department of Justice
- **DOL—1.** Department of Labor **2.** disperse operating location
- **DOP—1.** detailed operating procedure **2.** dioctyl/phthlate
- **DOS—1.** Department of State 2. disk operating system
- **DOT**—Department of Transportation
- **DOVAP**—Doppler velocity and position
- **DOW**—Dow Chemical Company, (Golden Colorado)
- dP—differential pressure
- DP—1. dew point 2. defense program (or plan)3. data processing 4. disposal procedure
- **DPA**—diversion path analysis
- **DPAC**—Diability Placement and Accessibility Committee
- **DPC**—Direct Program Committee
- **DPCM**—differential pulse-code modulation
- **DPCTP**—Defense Programs Critical Technology Plan
- dpdt—double-pole, double-throw (electrical
 switches)
- **DPM—1.** dual-purpose missile **2.** data processing machine **3.** documents per minute

DPQ—data quality objective

DPR—design for product realization

DPS—data processing set

DPSK-diferential-phase-shift keying

dpst—double-pole, single-throw (electrical switches)

DQC—directorate quality coordinator

DQO—data quality objective

DR—1. disability retirement 2. development report 3. design reconstitution

DRA—detailed risk analysis

DRAAG—design review and acceptance group

DRAM—1. dynamic response of articulated machinery **2.** dynamic random access memory

DRC—1. data-retention chassis 2. Disciplinary Review Committee

DRCF—dose-rate conversion factor

DRD-deep-rock disposal

DRE—destruction and removal efficiency

DRM—depositional remanent magnetization

DRP—deliverable reimbursable product

DRTF—Distributed Receiver Test Facility

DRU—dynamic reference unit

DS—1. development specification 2. direct support
3. development schedule 4. door switch 5. data
system 6. doublesided 7. department supervisor

DSA—1. dual stronglink assembly 2. direct support activity

DSAC—deterministic severe accident criteria

DSARC—Defense System Acquisition Review Council (obsolete; use Joint Requirements and Management Board)

DSAT—anti-satellite defense

DSB—1. Defense Science Board **2.** double sideband (modulation)

DSC—1. differential scanning calorimetry2. direct satellite communication

DSCA—differential strain curve analysis

DSCS—defense satellite communications system

DSD—data security device

DSDP—deep-sea drilling project

DSE—distributed system environment

DSG-downhole steam generator

DSGS—direct support/general support

DSI—Decision Sciences Institute

DSID—disposable seismic intrusion detector

DSK-disk

DSL—direct-strike lightning

DSLA—dual stronglink assembly

DSM—data stream multiplexer

DSN—defense switched network

DSP-1. doctoral study program **2.** defense support program **3.** digital signal processing

DSRD—data systems research and development

DSS—1. decision support systems 2. double shell slurry 3. designated seismic station

DSSF—double-shell slurry feed

DSSL—detonator safing stronglink

DST-double-shell tank

DSTO—Defense Science and Technology Organization (Australia)

DSV—defense suppression vehicle

DSVS—deployable seismic verification system

DSW—Director of Special Weapons

DSX-digital signal crossconnect

DT—1. diffraction tomography 2. dedicated target

D-T-deuterium-tritium

DTA—1. differential thermal analysis 2. dynamic testing agency 3. designated travel agency

DTC—desktop casting

DT²C³—Director of Theater and Tactical Command, Control, and Communications (Office of the Secretary of Defense)

DTD—1. document type definition 2. data transfer (or transport) device

DTDB—digital terrain database

DTE—data terminal equipment

DTED—digital terrain elevation data

DTER—drawing transfer engineering release

DTIC—Defense Technical Information Center

DTL—1. diode transistor logic 2. decontamination team leader

DTMF—dual-tone modulated frequency

DT/OT—development test/operation test

DTP—1. desktop publishing **2**. diversified telephone portfolio

DTR—delivery to reclamation

DTR90—taut wire sensor (one wire)

DTR2000—taut wire sensor (two parallel wires)

DTRG—dry tunedmotor gyroscope

DTU-data transfer (or transformation) unit

DTUC—data transfer unit cartridge

DTV—device transport vehicle

DTVB—digital television backup

DTVE—digital television element

DTWI-DOE transuranic waste integration

DU—1. distribution unit 2. depleted uranium3. Dobson unit (used in measuring ozone)

DUU—deliberate unauthorized use

DUVAS—derivative ultraviolet absorption spectroscopy

DV-data are valid

D&V—demonstration and validation

DVA—direct viscosification agent

DVM—digital voltmeter

DVPS—digital voice processing system

DW-1. dry well 2. development warhead

DWCS—digital wireless control system

dwg-drawing

DWI—driving while intoxicated (or impaired)

DWMP-Defense Waste Management Plan

DWPF—Defense Waste Processing Facility

DWS—digital weapon simulator

DWTM—(Office of) Defense Waste and Transportation Management (DOE)

DWV—dielectric withstanding voltage

DWVA—differential waveform analysis

DXT—depth times thickness

Dy—dysprosium (chemical symbol)

DYMAC—dynamic material control

dyn—dyne (a unit of force in the centimeter-gram-second system; use newtons instead)

 \mathbf{E}

E--exa- (a prefix)

E-1. environmental (test) 2. electrical (hazard)

EA—1. environmental assessment 2. emergency action 3. employee awards 4. endangerment assessment

EAC—Energy Advisory Committee

EACI—Environmental Air Control, Inc.

EACLOC—electron-alkali (Atom) close coupling (computers)

EACT—emergency action and coordination team

EADAS—engineering and administrative data acquisition system

EAG—extended absence greeting

EAM—1. emergency action message **2.** embedded atom method

EAP—1. Employee Assistance Program **2.** Educational Assistance Program **3.** emergency-action procedures

EAPRO—EAP referral option

EAR—environmental assessment report

EAROM—electrically alterable read-only memory

EAS—employee accounting system

EASI—estimate of adversary sequence interruption

EB—exploding bridge

EBAM—electron-beam addressable memory

EBC—Employee Benefits Committee

EBCDIC—extended binary-coded decimal-interchange code (computers)

EBCE—electron-beams control electronics

EBFA-electron-beam fusion accelerator

EBIC—electron-beam-induced current

EBIS-electron-beam ion source

EBM-electron-beam machining

EBR—1. electron-beam recording 2. experimental breeder reactor

EBRC-Equipment Budget Review Committee

EBW—exploding bridgewire

EBWR—experimental boiling-water reactor

EC—1. environmental chamber 2. European Community 3. exceptional contributor

ECA—electronic (or electrical) component assembly

ECAD—electronic computer-aided design

ECAP—European Conflict Analysis Project

ECB—electronic code book

ECC—1. emergency cardiac care 2. emergency core coolant(or cooling)

ECCD—electrical compatibility control drawing

ECCI—1. electronic commerce of component information 2. emergency core coolant (or cooling) injection

ECCM—electronic counter-countermeasures

ECCN—export commodity control number

ECCS—emergency core-cooling system

ECD—electron capture detector (explosives)

ECF—1. Entry Control Facility **2.** extracellular fluid **3.** explosives components facility

E&CF—events and causal factors

ECL-1. emitter-coupled logic 2. Execution Control Language 3. environmental checklist

ECLO—emitter-coupled logic operator

ECM—1. electronic countermeasure 2. electrochemical machining 3. environmentally conscious manufacturing

ECMC—enhanced crisis management capability

eco-electron-coupled oscillator

ECO—export controlled operations

ECOTRAC—ecology tracking

ECP—1. engineering change proposal2. Employee Contribution Plan 3. entry control point

ECR—1. engineering change request 2. electron cyclotron resonance 3. emergency conference room

ECS—1. environmental control system 2. emergency cooling system 3. emergency control station

ECSW-extended channel status word

ECT—evaporator condensate tank

ECTL—emitter-coupled transistor logic

ECTU—electrical compatibility test unit

ECU—environmental control (or conditioning) unit

ECUT—energy conversion and utilization technologies

ECW—effluent cooling water

ED—1. engineering and development 2. explosive destruction 3. emergency destruction 4. external device (computers)

E&D—environmental and degrading (or destructive)

EDAC—Earth Data Analysis Center (UNM)

EDAX—energy defensive analysis with x-rays

EDB—ethylene dibromide

EDC—Employee Development Center

EDD—enforcement decision document

EDE—effective dose equivalent

EDF—Environmental Defense Fund

EDG-emergency diesel generator

EDLN—edge and line (weights)

EDM—1. electron discharge machine (or machining) 2. electrical discharge machining

EDMA—electronic design and manufacturing automation

EDNA—externally driven nuclear assembly

EDOC—error detection or correction

EDP—electronic data processing

EDPE—electronic data-processing equipment

EDPM—electronic data-processing machine

EDPS—electronic data-processing system

EDR—electric dispersion reactor

EDRS—environmental data reporting system

EDS—1. energy dispersive spectroscopy 2. emergency disablement system 3. electronic disk storage 4. explosives detection system 5. earth data system 6. event dataset

EDU-error detection unit

EDW—environmental development warhead eff—efficiency EFF—electric field fence EDX—exoatmospheric discrimination experiment **EFI**—exploding foil initiator EE—1. engineering evaluation 2. electrical engineer 3. external evaluation E&E-energy and environment **EEC**—European economic community **EE/CA**—engineering evaluation and cost analysis transfer EED-1. end event data 2. electro-explosive device EEFI—essential elements of friendly information EEG-electroencephalograph **EEM**—essential equipment monitor **EEO**—Equal Employment Opportunity (DOE Contractor) **EEO/AA**—Equal Employment Opportunity/Affirmative Action **EEOC**—Equal Employment Opportunity Commission EEPROM—electrically erasable programmable read-only memory (see EPROM) **EER—1.** engineering evaluation reactor 2. engineering evaluation release magnetic pulse **EERC**—Energy and Environment Research preferred) Center **EEROM**—electrically erasable read-only memory **EERU**—environmental emergency response unit **EES**—electric energy systems EEV—employee expense voucher ef—E-field (fence)

EFC-electronic filmless camera

group

EFCOG—energy facilities contractors operating

EFMS—electronic forms management system EFP—explosively formed projectiles EFT-1. electronic fund transfer 2. electronic file EFTS—electronic funds transfer system e.g.—exempli gratia (for example) EG—emergency generator EGA—enhanced graphic adapter EG&G—Edgerton, Germeshausen and Grier, Inc. EGR—energy gamma rays EGS—engineering graphics system EH-environment and health EHD—electrohydrodynamics EHEMP—enhanced, high-altitude electro-**EHF**—extremely high frequency (UHF is EHS—extremely hazardous substance **EHV**—extremely high voltage (UHV is preferred) **EHVL**—enhanced hypervelocity launcher EIA—1. Electronic Industries Association 2. economic impact assessment 3. Energy Information Administration (DOE) **EIC**—environmental Information Center **EIF**—Enterprise integration facility EIG—electronic installation group

EIN—employer identification number

EIS—1. environmental impact statement

2. engineering information system

3. export in-formation system

EIVR—exchange of information by visits and reports (in US/UK defense agreements)

EIVS—experimental inventory verification system

EKG—electrocardiograph (or electrocardiogram

EL—1. erector launcher 2. environment laboratory

ELC-erector-launcher car

ELF or **elf**—extremely low frequency

ELI—early litigation qualification

ELINT—1. electromagnetic intelligence **2.** electronic intelligence

ELKE—elevated kinetic-energy (weapon)

ELS—1. enhanced line security 2. explosive light source

EM—1. electromagnetic 2. Energy Measurements, Inc. (subsidiary of EG&G) 3. environmental monitoring (or management)

EMAT—electromagnetic acoustic transducer

EMC—electromagnetic compatibility

EMCC—1. Electromagnetic Code Consortium2. Emergency Management CoordinationCommittee

EMEA—electronic mail enabled application

EMES—electromagnetic environment simulator

EMF or emf—1. electromagnetic force (or field)
2. electromotive force

EMFG—explosive magnetic flux generator

EMG—explosive Marx generator

EMI—electromagnetic interference

EMINS—emergency management information system

EMIS—emergency management information system (sometimes abbreviated as EMINS)

EML—1. electromagnetic launcher 2. equipment maintenance log

EMMS—electromagnetic measurements system

EM&NR—energy, minerals, and natural resources

EMP—1. electromagnetic pulse 2. enrichment monitor processor 3. electron microprobe 4. environmental monitoring program

EMR—electromagnetic radiation

EMS—1. emergency management system
2. emergency medical service

EMSL—Environmental Monitoring Systems Laboratory

EMT—1. emergency medical technician
2. executive management team

emu or EMU—electromagnetic unit

EMX—electromagnetic X

ENDF—evaluated nuclear data file

ENDS—1. enduring NUDET detection system **2.** enhanced nuclear detonation safety

ENET—Ethernet

ENG-electronic newsgathering

ENNE—enterprise network excellence

ENNK—endoatmospheric nonnuclear kill

ENR—energy neutrons

ENS—emergency notification system

ENSCE—enemy situation correlation element

ENV-environmental

EnviroTRADE—environmental technologies for remedial actions data exchange

e/o-enrichment percent

EO—1. equal opportunity **2.** environmental operations **3.** executive order

EOA—end of address

EOC—1. Emergency Operations Center2. Environmental Operations Center

EOD—1. explosive ordnance disposal **2.** erasable optical disk

EOF-end of file

EOL—end of life

EOM—1. end of message 2. end of month

EON—external open network

EOP—experimental operating procedure

EOR—enhanced oil recovery

EOS—1. equation of state 2. earth observation system 3. equal opportunity specialist

EOSAT—earth observation satellite

EOSC—electro-optics subcouncil

EOS/ESD—electrical overstress/ electrostatic discharge

EOSP—electrooptic signal processor

EP—1. earth penetrator **2.** engineering procedure **3.** environment protection

EPA—1. Environmental Protection Agency2. electrical penetration assembly 3. Equal Pay Act

EPAC—1. Educational Programs Activity Committee **2.** East Pacific

EPC—early Pentagon capability

EPCA—Energy Policy and Conservation Act

EPD—engineering production document

EPI—1. electronic position indicator **2.** engineering process improvement

EPIC—El Paso International Center (Fort Bliss, Texas)

EPICURE—experimental physics interactive controls user resource enhancement

EPLD—erasable programmable logic devices

EPMS—enhanced property management system

EPOCH—electron propagation on channels

EP&P—electronic publishing and printing

EPR—1. ethylene-propylene rubber 2. electron paramagnetic resonance 3. experimental power reactor 4. employee placement report 5. employee personne; record

EPRD—end product

EPRI-Electric Power Research Institute

EPROM—erasable (or electrically) programmable read-only memory (see EEPROM)

EPSF—encapsulated postscript format

EPW—earth-penetrating weapon

EPZ—emergency planning zone

Eq—equation (used only before a number); plural is Eqs

EQ-equipment qualification

EQFD—enhanced quality function deployment

EQIP—equipment qualification inspection program

EQRC—Electronics Quality Reliability Center

equiv-1. equivalent 2. also equivalency

- ER—1. engineering release 2. environmental restoration 3. energy research 4. enhanced radiation 5. energy ratio
- ERA—1. electron ring accelerator 2. Economic Regulatory Administration (DOE) 3. ERDA research abstract 4. expedited response action
- ERAB—Energy Research Advisory Board
- ERAD—explosive release atmospheric dispersion
- **ERADCOM**—Electronics Research and Development Command (Army)
- ERB—1. Energy Resources Board 2. exclusion region barrier
- **ERC**—Engineering Research Center
- ERCS—emergency response cleanup services
- **ERD**—emergency response director
- ER&D—exploratory research and development
- **ERDA**—Energy Research and Development Administration (previously *AEC* and now *DOE*)
- ER&E—Exxon Research and Engineering
- erf-error function
- erfc-error function (complement of)
- ergs-erg-second (obsolete; use joules)
- **ERIS**—exoatmospheric reentry intercept system
- **ERISA**—Employee Retirement Income Security Act
- ERL—emergency reference level
- **ERNS**—emergency response notification system
- **EROM**—erasable read-only memory
- **ERP—1.** equipment requirement program **2.** effective radiated power **3.** emergency response procedure

- ERPG—emergency response planning quideline
- **ERPO**—Environmental Restoration Project Office (DOE)
- ERS—equipment requirements schedule
- **ERST**—environmental restoration site tracking
- ERT—1. emergency response team 2. environmental response team
- ERU—equipment replaceable unit
- ERV—emergency relief valve
- **ER&WM** or **ER/WM**—environmental restoration and waste management
- ES—expert system
- E&S—error and sensitivity
- ESA—1. engineering science assistant 2. electronic safety and arming 3. Endangered Species Act
- **ESAAB**—Energy Systems Acquisitions Advisory Board
- **ESAD—1.** electronic safing, arming, and detonation **2.** electronic safing and arming device
- ESAF—electronic safe arm fire
- ESAISA—explosive safety internal selfassessment
- **ESAISA**—European Safeguards and Research Development Association
- **ESARDA**—European Safeguards and Research Development Association
- ESAT—environmental services assistant team
- ESC—Electrical Safety Committee
- **ESCA**—electron spectroscopy for chemical analyses
- **ESCS**—emergency satellite communications system

e.s.d.—estimated standard deviation

ESD—1. environmental sensing device 2. electrostatic discharge 3. electron-simulated desorption 4. emergency shutdown device

ESF-1. Exploratory Studies Facility **2.** exploratory shaft facilities **3.** engineered safety features

ESFAS—engineered safety features actuation system

ES&H—environment, safety, and health

ESHAC—Environmental Safety and Health Advisory Committee

ESI—1. extremely sensitive information
2. equivalent series inductance 3. expanded site investigation

ESIE—extended SATKA integrated experiment

ESIU—ejector-store interface unit

ESM-environmental sensor (or status) monitor

ESNA—European Society of Nuclear Methods in Agriculture

ESOP—Employee Stock Ownership Plan

ESP—electrostatic precipitator

ESQD—explosive safety quantity distance

ESR-1. electron spin resonance 2. early storage reserve 3. electroslag remelting 4. equivalent series resistance

ESS—1. engineering safeguards system 2. electronic switching system 3. engagement simulation system 4. essential 5. environmental stress screening

ESSA—electronically switched spherical array

ESSG—environmental-sensing signal generator

E&ST—employment and suitability test

ESTSC—Energy Science and Technology Software Center (Oak Ridge, TN)

ESTS—electronic systems test set

esu-electrostatic unit

ESU-energy storage unit

ESW-emergency service water

ET—1. European (Warning) Terminal 2. event tree

ETA—estimated time of arrival

et al.—et alii (and others)

ETAS—elevated target acquisition system

etc.—et cetera (and so forth)

ETC—electrothermal/chemical

E/TE—experiment/test engineers

ETF—1. Experimental Test Facility 2. Engine Test Facility

ETHZ—translation: Swiss Federal Technical University in Zurich

ETI—early transient incapacitation

ETIS—elapsed-time indicator system

ETL/ISG—engineer topographic laboratories/intelligent system group

ETR—electrothermal response

ETS—1. energy transfer system 2. electronic translator system

ETU—1. early training unit 2. environmental test unit

ETV—educational television

eu-entropy unit

e.u.-electron unit

EUCOM—European Command (US)

EUDED—Army Corps of Engineers, European Division

EUNIE—European nuclear interface unit

EUQS—environmental unique signal

EURATOM—European Atomic Energy Community

EUVL—extreme ultraviolet lithography

eV-electron volt

EV—electric vehicle

EVE—exemplary volunteer effort

EVM—electronic voltmeter (formerly called VTVM: vacuum tube voltmeter; used now to refer to equipment)

EVP—executive vice president

EW—1. European Warning 2. electronic warfare

EWO—1. electronics warfare officer
2. Emergency War Order

EWP-Emergency War Plan

EWS—early warning system

EWT—emitter wrapthrough

EX—exemption request

EXCOMS—executive communications system

exp-1. exponent 2. exponential

expt-experiment

EXR—energy x-rays

EZU-extended zone unit

F

f—femto (a prefix indicating 10⁻¹⁵)

f/16—aperture ratio 16

F—degrees Fahrenheit

F—1. farad (electric capacitance) 2. fermi (length equal to 10⁻¹⁵ meter) 3. fluorine (chemical symbol) 4. fuze

fa-femtoampere

FA—1. field artillery 2. forward area 3. failure analysis 4. funds advance

FAA—1. Federal Aviation Administration **2.** functional area appraisal

FAASV—field artillery ammunition supply vehicle

FAATC—Federal Aviation Administration Technical Center (Atlantic City, NJ)

FAC-1. fast-acting closure 2. facility

FACET—a computer program for model smoothing

FACOM—Field Artillery Command

FACP—fire alarm control panel

FACR—facts, analysis, conclusions, and recommendations

FACS—future armored combat system

FACT—1. fully automatic compiler-translator
2. Facility for Calibration and Test (Coyote Canyon)
3. Federation of Automated Coding Technologies

FAD—fuzing and arming device

FADE—focus, analyze, develop, and execute

FADS—force administration data system

FAE—fuel air explosive

FA&F—fuzing, arming, and firing

FAID—1. fuel assembly identification **2.** fuel assembly integrity devices

FAIS—Foreign Affairs Information System

FAIT—facilities asbestos implementation team (see FAMT)

FALCON—fission-activated laser concept

FAM—facility assessment methodology

FAMT—facilities asbestos management team (see FAIT)

FAN-E-Flaming Arrow Network, Europe

FAO—Federal Agency Order

FAR—1. false-alarm rate 2. fly-away round3. federal acquisition regulation 4. federal aviation regulation

FARR—failsafe and risk-reduction (study)

FAS—Federation of American Scientists

FAST—1. Fourier amplitude sensitivity test

2. future artillery systems technology

3. facilities accelerated Systems teams

FASTCAST—delivers investment cast hardware

FAT—factory acceptance test

FATE—fuzing, arming, testing, and evaluation

fax or FAX-facsimile message

FBA—force-balance accelerometer

FBC—fluidized bed combustion

FBI-Federal Bureau of Investigation

FBIA—force-balance integrating accelerometer

FBIS—Foreign Broadcast Information System

FBM-fleet ballistic missile

FBR—fast breeder reactor

fc-1. flow chart 2. footcandle

FC-1, full contributor 2. fluorocarbon

FCA—functional configuration audit

fcc-face-centered cubic

FCC—1. Federal Communications Commission 2. Facilities Command Center (SNL)

FCCSET—Federal Coordinating Council for Science, Engineering, and Technology

FCDC—flexible confined detonating card

FC/DNA—Field Command/Defense Nuclear Agency

FCI—1. Fluid Controls Institute 2. fuel-coolant interaction

FCL-fault current limiter

FCO-final change order

FCP—1. fuel cycle program (or plant) 2. Field
Command Post 3. forward control point
4. fluid coupled plate 5. flight computer
program

FCR—facilities customer representative

FCS—fire control system

FCSM—field command stockpile management

 \mathbf{fcst} —forecast

FCTI-fuel coolant thermal interaction

FDA—1. Food and Drug Administration 2. fuel distribution analyzer

FDB—field distribution box

FDD—facility design document

FDDI—fiber distributed data interface

fdm—frequency-division multiplexing (or multiplexer

FDM—fixed detection mode

FDR—final development report

FDS—fence disturbance sensor

Fe—iron (chemical symbol)

FE—1. ferroelectric 2. fossil energy 3. facility engineer 4. Facilities Express 5. finite element

FEB—functional electronic block

FEBA—forward edge of battle area

FECOM-Far East Command

fed-1. federal 2. federated 3. federation

FEDS—forced entry deterrent system

FEMA—Federal Emergency Management Agency

FEMP—Fernald Environmental Management Project

FEMTRAN—radionuclide transport model

FENCER—NATO code for Soviet bomber

FEP-front-end processor (computers)

FEPCA—Federal Environmental Pollution Control Act (1972)

FERC—Federal Energy Regulatory Commission (DOE)

FERF—Fusion Engineering Reactor Facility

FES—flight environment sensor

FESEM—forcible entry safeguards effectiveness model

FESOP—Facilities Engineering Standard Operating Procedures

FESS-front-end security system

FET—1. ferroelectric transistor 2. field-effect transistor (switch)

FEWS—follow-on early warning system

FFA—1. federal facilities agreement 2. freefall airburst

FFBD—functional flow back diagram

FFCA—federal facilities compliance agreement

FFE—failed fuel element

FFG—free fall groundburst

FFM—failed fuel mockup

FFP—firm fixed price

FFRDC—Federally Funded Research and Development Center

FFS-fast-flag sensor

FFT—fast Fourier transform

FFTF—Fast Flux Test Facility

FGD—flue gas desulfurization

FGIS—facilities geographic information system

FHAR—fire hazard analysis report

FHSA—Federal Hazardous Substances Act (1966)

FHWA—Federal Highway Administration

FI—Ferrovie Italiane

FIBITE—fault isolation built-in test

FIC—1. Financial Information Center2. frequency interference control

FICI—failed instrument component inspection

FID-flame ionization detector

FIDO-financial download (tool)

FIDS—facility intrusion detection system

FIDU or fidu—fiducial

FIFA—fissions per initial fissile atom

FIFO—first-in, first-out (for inventory; also used in the computer field as a method of retrieving items)

FIFRA—Federal Insecticides, Fungicide, and Rodenticide Act

Fig.—figure (avoid abbreviation; best to spell out)

FIG—fast ion gauge

FIJ-facts, inference, and judgment

FIMA—fissions per initial metal atom

FIPS—federal information processing standards

FIR—far-infrared (laser)

FIRL—Franklin Institute Research Laboratory

FIS—1. financial information system 2. fluoroimmuno sensor

FISUG-FIS user group

FIT—field investigation team

FITS—1. fully instrumented test site 2. focus information technology showcase

FKE—fracturable keying elements

fl-fluid

fL—foot lambert (sometimes written ftL)

FLAWLES—flight analysis by a weighted least-squares (technique)

FLC—1. Federal Laboratory Consortium2. Federal Laboratory Commission

FLEA-flux logic element array

FLECHT—full-length emergency core heat transfer

FLIR-forward-looking infrared

FLMPR—forward-looking, material-penetrating radar

FLOSIM—flow simuation (computers)

FLOT—forward line of own troops

FLSA-Fair Labor Standards Act

FLSC—flexible linear-shaped charge

FLTSATCOM—Fleet Satellite Communications

fm-femtometer (also used as fermi)

FM—1. frequency modulation 2. ferromagnetic3. fully meets 4. function manager 5. field manual 6. factory mutual

F-map—feature mapping

FMCS—Federal Mediation and Conciliation Service

FMD—fuel motion detection

FMDF—fixed-mirror distributed focus

FMEA—Failure Mode and Effects Analysis

FMEF—fuels and materials examination facility

FMHR—field material-handling robot

FMLA—Family Medical Leave Act

FMS—1. forms management system 2. financial management service 3. flexible manufacturing system 4. foreign military sales

FMSC—fixed-mirror solar concentrator

fnp—fusion point (nuclear technology)

FNSI—finding of no significant impact (sometimes written as FONSI)

FO—fiber optics

FOB-free on board

FOC-full (or final) operational capability

FOCI-foreign ownership, control, or influence

FODOCS—feasibility of disposal of contaminated soil

FOG—future options group (SNL)

FOGM or FOG-M—fiber-optic guided missile

FOIA—Freedom of Information Act

FONSI—finding of no significant impact (more commonly written as FNSI)

FOR—field of regard

FORSCOM—Forces Command (Army)

FORTRAN—formula translator (or translation) (computers)

FOS—fiber optic sensor

FOSDIC—film optical scanning device for input to computers

FOT—follow-on operational test

FOTL—follow-on to Lance

FOV-field of view

fp—freezing point

FP-1. facility personnel 2. fission product

FPA—1. floating point accelerator 2. Federal Preparedness Agency

FPD—flame photometric detector

FPDR—first production drawing release

FPFF—full power, full frequency

FPGA—field programmable gate array

FPMR—Federal Property Management Regulation

FPP—1. financial preprocessor **2.** floating point processor

fps-1. frame per second 2. feet per second; also ft/s

FPS—fence protection system

FPU—first production unit

FQR—field quality representative

FR-1. France 2. Federal Register

FRA—Federal Railroad Administration

FRAM—ferroelectric random-access memory

FRAS—fission gas release and swelling (computers)

FRB—fast rise-time breakdown

FR/CP—functional representatives and counterparts

FRD—formerly restricted data

FREADM—fast reactor excursion and accident dynamics nodel (computers)

FREC-fuel-ringed external cavity

FRED—faceted region editor

freq—frequency

FRERP—Federal Radiological Emergency Response Plan

FRG—Federal Republic of Germany

FRMAC—Federal Radiological Monitoring and Assessment Center

FROKA—First Republic of Korea Army

FRP—fire-resistant pit

fs-femtosecond

FS—1. firing set 2. fuming sulphuric (smoke agent) 3. feasibility study

F&S—Fenix & Scission, Inc.

FSA—1. fuel sphere assembly 2. firing system assembly 3. forward staging area 4. forward support assembly

FSAC—Facilities Safety Appraisal Committee

FSAR—Final Safety Analysis Report

FSC—Federal Supply Classification

FSCC—File Support Coordination Center

FSD—full-scale development

FSE-fire-support element

FSG—Federal Supply Group

FSK—frequency-shift keying (see PSK)

FSL—1. Flight-Simulator Laboratory **2.** formal semantics language (computers) **3.** field storage location

FSM—1. fail-safe memory 2. financial systems migration

FSMB—financial system management board

FSN—1. federal stock number 2. Foreign Service National

FSO—facility security officer

FSP—foreign service post

FSPS—free-standing plasma-sprayed

FSR—functional security requirement

FSRB—fuze safety review board

FSS—federal supply schedule

FSSG—Force Service Support Group

FSU-Former Soviet Union

ft—foot or feet

FT-1. frame transfer 2. Fourier transform

FTE—full-time equivalent

FTF—Falcon Test Facility

FTIR—Fourier transform infrared (spectroscopy)

FTIS—financial transaction interface system

ftL-see fL

ft-lbf-pound force per foot

FTM—flight test missile

ft/min-feet per minute

ft³/min—cubic feet per minute (preferred over liters per second: L/s)

FTOS—flight-termination ordnance system

FTP—file transfer protocol

ft-pdl—foot poundal

FTPA—Field Task Proposal Agreement; see WPAS

FTPS—financial transaction processing system

FTQ—flight test qualification

FTR—fast test reactor in FFTF

FTS—Federal Telecommunications System

ft/s—feet per second; also fps

ft³/s—cubic feet per second

FTSC—fault tolerance spaceborne computer

FTU—flight test unit

FU—Finsen unit (electromagnetics)

FUFO—full fuzing option

FUSRAP—Formerly Utilized Sites Remedial Action Program

fV-femtovolt

FVC—filtered vented containment

FW-feed water

FWA—flow weighted average

FW/BCR—feed withdrawal/building control room

FWCA—Fish and Wildlife Coordination (1958)

FWCC—fine-weave carbon-carbon

fwd-forward

FWDC—Foster Wheeler Development Corporation

FWDR—Final Weapon Development Report

FWHM-full width, half maximum

FWP—field work proposal

FWPCA—Federal Water Pollution Control Act (obsolete; now Clean Water Act)

FWPF—fine-weave pierced fabric

FY-fiscal year

FYDP—Five-Year Defense Program

FYI-for your information

FYPP—Five-Year Program Plan

FZ-flow zone

G

g—1. gram (sometimes gm, but g is preferred)2. acceleration due to gravity

G-1. gain 2. giga- (a prefix indicating 10⁹)

ga or GA-gauge

GA-1. gun assembled 2. genetic algorithms

G&A—general and administrative

GaA-gallium arsenide

GaAlAs—gallium-aluminum arsenide

GACC—ground attack control capability

GADRAS—gamma detector response and analysis software

GAF—German Air Force (Luftwaffe)

G/AIT—ground/airborne integrated terminal

gal-gallon

gal/min-gallons per minute

GAMA—generation and maintenance area

GAO—General Accounting Office

GAPP—global atmospheric research program

GAS—global antenna system

GAT—Goodyear Atomic Corporation

GATERS—ground-to-air telerobotic system

GAWR—graphic arts work request (obsolete; now referred to as service order request: SOR)

GBARC—Great Britain Aeronautical Research Council

GBEE—Governor's Business Executives for Education

GBI-ground-based interceptor

GBR-X—ground-based radar experiment

Gbyte—gigabyte

G&C—guidance and control

GCD—greater confinement disposal

GCEP—gas centrifuge enrichment plant

GCFBR—gas-cooled fast breeder reactor

GC/FPD—gas chromatograph/flame photometric GESMO-generic environmental statement on detector mixed oxide GCM—global circulation model GESS—generator exhaust signature suppressor GC/MS—gas chromatographic mass spectrometer **GETS**—group emergency telephone system GCN—ground communications network **GeV**—gigaelectron volt GCRP—global change research program **GFCI**—ground fault circuit interrupter Gc/s—gigacycles per second (obsolete; use GHz) GFE—government-furnished equipment GCS—general communications system GFI—ground fault interrupter GD/C—General Dynamics/Convair (obsolete; now GFS—government-furnished software Lockheed) Gg-gigagram GDC—general design criteria GG-GNT gateway GDE—geologic disposal evaluation G&G—geophysical and geodedic GDH—gobal data handler GHA-ground hazard area GDO—geothermal drilling organization GHP—geothermal heat pump GDP-GNT data processor GHQ—General Headquarters GDS—general declassification schedule GHz-gigahertz GDT—ground data terminal Gi—gilbert **GE**—General Electric (Company) GIDEP—government-industry data exchange GE-BRD—General Electric. Breeder Reactor program Division GIE—ground interface electronics GEM—generator, electronic marker **GIF—1.** Gamma Irradiation Facility **GENDD**—General Electric Neutron Device 2. guaranteed interest fund Department (now the Pinellas Plant) GIGO—garbage in, garbage out (computers) **GENSER**—general service GIP—geotechnical instrumentation package **GEONDS**—Ground EMP Optical NUDET (nuclear detonation) System GIS—1. gas-insulated substation 2. geographic (or global) information system (SNL)

GEOTEMP—geological temperature (computers)

GEP-1. ground entry point 2. graduate

education program

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GISC—generic intelligent system controller

GISSP—geotechnical in situ strength probe

GISP—geotechnically instrumented seafloor probe

GJPOGrand J	Junction	Projects	Office	(DOE)
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GL—general linear

GLCM—ground-launched cruise missile

GLONASS—Global Navigation Satellite System (Soviet Union)

GLT—glycine-L-tyrosine (a typical drug molecule)

gm—gram (it is preferable to use g)

g/m³—grams per meter cubed

GM-1. General Motors 2. geometry modeling

G-M—Geiger-Mueller counter

GMB—glass microballoon

GMC—guided missile cruiser (nuclear)

GMCP—ground maintenance computer program

GMT—Greenwich mean time

gmv-gram-molecular volume

GNR—general nuclear release (or response)

GNS—global navigation system

GNT—ground NUDET terminal

GO—government obligations

GOCO—government-owned, contractor-operated (DOE)

GOES—geostationary operational environmental satellite

GOP—general output

GOSIP—Government Open Systems Interconnect Profile

GOSSAT—Group on Soviet Science and Technology

GOX—gaseous oxygen

GP—general purpose

GPa—gigapascal

GPA—grade point average

GPBTO—general-purpose, barbed-tape obstacle (concertina)

GPC—1. gas permeation chromatography2. giant piston core

GPE—general plant equipment (see GPP)

GPIB—general purpose instrumentation bus

gpm-gallons per minute

GPMPP—groundwater protection management protection plan

GPO—Government Printing Office

GPP—1. General Plant Project **2**. general-purpose plant (equipment) (see GPE)

GPR—ground-penetrating radar

GPS—1. global positioning system 2. global positioning satellite 3. gas purification system
4. groundwater protection strategy

gr-1. grain 2. gross

GRADIN—gradient inverse

GRASER—gamma-ray laser

GRASS—gas release and swelling subroutine (computers)

GRI-Gas Research Institute

GRINSH—graded index separate-confinement heterostructure

GRIS—gamma-ray imaging system (or spectrometer)

GRO—gamma-ray observatory

GRS—1. global receiver system 2. general records schedule

GRU—translation: Soviet Intelligence Directorate of the General Staff

GS—geological survey

GSA—General Services Administration (Agency of the Federal Government)

GSAC—gas-sealing auxiliary closure

GSE—1. ground support equipment **2.** group of scientific experts

GSF-Geoelectric Simulation Facility

GSFC—Goddard Space Flight Center

GSL—general scattered light (version of SPIRITS)

GSSE—ground system support engineer

G/T—(ratio of) gain (noise) to temperature

GTA—gas tungsten arc

GTCC—greater than Class C

gtd.—guaranteed

GTDA—general (license) technical data and annotation

GTE—General Telegraph and Electric (Company)

GTM—1. ground test missile 2. gang temperature monitor

GTPP—gas transfer pilot project

GTR—Government Travel Requisition

GTS-1. guidance test set 2. ground test missile 3. gas transfer system

GTSN—global telemetered seismographic network

GTU—ground test unit

GTUF—G-tunnel Underground Facility

GUI—graphics (or graphical) user interface

GUIDAR—guided intrusion detection and ranging

GUILD—government, university, industry, and laboratory development

GV—ganged valve

GVI—graphic users interface

G/VLLD—ground/vehicular laser locator designator

GVLS—global verification locating system

GVR—gas volume ratio

GVWR—gross vehicle weight rating

gw—ground water; also groundwater

GW—gigawatt

GWEN—ground wave emergency network

GWOA—guerilla warfare operational area

GWS—general war system

Gy—gray (unit of radiation dosage)

GZ—ground zero (nuclear detonation)

H

h-—hectro- (a prefix indicating 10²)

h—hour (also hr)

H—1. henry (electric inductance) 2. horizontal3. hazardous (materials, substances, and wastes)

ha-hectare

HAA—heterogeneous aerosol agglomeration (computers)

HABE—high altitude balloon experiment

HAC-heliostat array control

HACV—heavy armored combat vehicle

HAD—hazard assessment document

HAF—high-altitude fuze

HAI—hazard assessment information (HAI form is obsolete)

HAMOC—hammer analysis method of characteristics (computers)

HAP—hazard analysis process

HARC-helicopter accident-resistant container

HARP—1. hazards assessment of rocket propellants (terminated in 1989) 2. high altitude research project

HAS—hardened aircraft shelter (see PAS)

HASP—health and safety plan

HATS—hazard abatement tracking system

hav-haversine

HAW—hypersonic aerodynamic weapons

HAWT—horizontal-axis wind turbine

HAZ-heat-affected zone

HAZCOM-hazard communication rule

HAZMAT (or HazMat)—hazardous material

HAZOP—hazard and operability

HAZWOPER—hazardous waste operations and emergency response

HAZWRAP—hazardous waste remedial action program

HBV—Hepatitis B virus

HC—1. hexachloroethane (screening smoke)2. honeycomb 3. hazard class 4. hydrocarbon

HCA-high contamination area

HCC—1. Headquarters Communications Center **2.** Headquarters Command Center (SNL)

HCDA—hypothetical core disruptive accident

HCF—Hot Cell Facility

HCFC-hydrogenated chlorofluorocarbon

HCl—hydrochloric acid

HCM-high-current mode

hcp-hexagonal close packed

HCP—hearing conservation program

HCSA—health care spending account

HD-high density

HDC—Headquarters Data Center

HDL—Harry Diamond Laboratories (Adelphi, MD)

HDP—high delta pressure

HDR-hot dry run

HDS—hydrodesulfurization

HDTV—high-definition television

HDW-Hanford defense waste

HDX—half-duplex (circuits)

HE-1. high explosive 2. human error

HEART—hardened electronics and radiation technology

HECTR—hydrogen event containment transient response

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HED—high energy density

HEDI—high endoatmospheric defense interceptor

HEDL—Hanford Engineering Development Laboratory (Washington)

HEED—high energy electron diffraction **HEEF**—a boundary element solution **HEGF**—high energy gas fracturing **HEL**—Human Engineering Laboratory **HELIA**—high energy line induction accelerator **HELIOS**—computer analytic code in heliostat technology **HELP**—high energy laser program **HEM**—homogeneous equilibrium model (computers) **HEMP**—high altitude electromagnetic pulse **HEP**—human error probability **HEPA**—high efficiency particulate air (or aerosol) (filter) **HERC**—heavy equipment remote control **HERL**—Health Effects Research Laboratory **HERMES**—high energy radiation megavolt electron source **HERO**—hazards of electromagnetic radiation to ordnance **HETT**—high explosive transit time **HEU**—highly enriched uranium HEW—health, education, and welfare hex-1. hexagonal 2. hexadecimal HF-1. high frequency 2. hydrogen flouride HFA—human factors analysis

HFC—fluorinated hydrocarbon

HFIR—high flux isotope reactor

hfdf—high frequency direction finder

hfs—hyperfine structure **HFS**—Human Factors Society HFSE—high frequency seismic element **Hg**—mercury (chemical element) H-gear-handling gear **HGU**—hand geometry unit **HGV**—hypersonic glide vehicle HHC—high heat capacity HHFCDP—high heat flux component development program HIACA—high intensity, adjustable cobalt array HIDS—highly integrated detonation system HIP-1. hazard identification process 2. howitzer improvement program HIPO—high (incident) potential **HIPORS**—high power radiation source **HIPPI**—high performance parallel interface HIRA—hazard identification and risk assessment HIRAC—hazards identification, recording, and correction (system) (Sandia/CA) **HIRCIS**—high resolution capacitive imaging sensor **HIS**—Honeywell information system **HISAC**—high speed airdrop container (system) HITAF—high temperature advanced furnace (DOE) HIT-SAR—Highway Transportation—Safety Analysis Report

HITEC—Hispanic (and American Indian)

Technical Education Center

HIV—human immunodeficiency virus **HJ**—Honest John (missile) HK—Hefner candle (optics) HLFM-high level flux monitor HLG-High Level Group (NATO Nuclear Issues Group) **HLGPT**—high level general-process trash **HLLW**—high level liquid waste **HLOC**—Hispanic Leadership and Outreach Committee **HLOS**—horizontal line of sight HLW-high level waste HM-1, hazardous material 2, health monitoring HMC-1. hybrid microcircuit 2. HazMat (On-Scene) Commander HMEA—hazard mode and effect analysis HML-hard mobile launcher HMMWV—high mobility multipurpose wheeled vehicle **HMO**—Health Maintenance Organization HMPE—high modulus polyethylene HMS-hazardous materials storage **HMT—1.** hazardous materials transportation 2. hazardous materials table **HMTA**—Hazardous Materials Transporation Act HMX—high melting explosive

H&N-Holmes and Narver, Inc.

HNAB—hexanitroazobenzene (explosive)

HNL—Holified National Laboratory

HNS—hexanitrostilbene (explosive) Ho—holmium (chemical symbol) **HOB**—height of burst **HOC**—halogenated organic compound **HOE**—homing overlay experiment **HOFS**—hybrid optical firing set **HOIS**—hostile intelligence service **HOM**—homology **HOP**—high oxygen pressure **HOPE**—hypothetical overpower excursion (computers) **HOTPIM**—hydrodynamics or two-phase internal mixture (computers) hp-horsepower HP—1. health physics (or physicist) 2. Hewlett-Packard 3. high pressure **HPAR**—health physics anomaly reporting HPCC—high performance computing and communication **HPD—1.** Health Protection Division (DOE) 2. hearing protection device **HPFL**—High Performance Fuel Laboratory **HPI**—hazard potential index **HPLC**—high performance liquid chromatography HPM—high power microwave **HPOF**—high pressure oil-filled **HPPP**—high pressure pump pad **HPRF**—high power radio frequency **HPRS**—high pressure recirculation system

HPSS—high performance storage system **HSP**—Health and Safety Plan **HPT**—high potential tester HSR-helical screw rheometer H, P, T, & E—hand, power, thermal, and **HSS**—hazard separation system explosives (attack tools) **HSST**—house science, space, and technology **HQ**—headquarters **HSTF**—Heated Screen Test Facility **HQDA**—Headquarters, Department of the Army **HSWA**—Hazardous and Solid Waste Amendment **HQSAC**—Headquarters Strategic Air Command ht-height hr or h—hour HT—1. high temperature 2. tritium HR-1. human resources 2. heavy replica **HTA**—high temperature alarm HRA—1. health risk appraisal 2. high radiation area HTC—heat transfer coefficient HR/AR—high reflectance/antireflectance HTGC—high temperature gas cleanup **HPOF**—high pressure oil-filled HTGR—high temperature, gas-cooled reactor HRCQ—highway route controlled quantity HTIR—high temperature insulation resistance HRD-1. human resources development HTK—hard to kill 2. heavy replica decay **HTLD**—High Technology Light Division (Ft. Lewis) HRIS—human resources information system HTML—A set of language codes that enable HRM—1. health risk management 2. Hoisting documents to use hypertext, images, sound, and Rigging Manual (DOE) and video HRS-1. heat rejection system 2. hazard HTO-1. tritium water 2. tritium oxides ranking system **HTRB**—high temperature reverse bias **HRTEM**—high resolution transmission electron microscopy HTS—1. high temperature superconductor 2. hyperchannel terminal server HS-hydrogen sulfide **HTTT**—high temperature turbine technology HSB—Human Studies Board (SNL) (frequently called Institutional Review Board) **HUD**—Department of Housing and Urban Development (US) HSE—Health, Safety, and Environment Division (DOE) **HUMINT**—human intelligence **HSL**—hue, saturation, lightness hv or HV-high voltage

HVA—high velocity accelerator

HVAC—heating, venting, and cooling

H&SM—Health and Safety Manual (DOE)

HSMCDR—high speed multichannel data recorder

HVB-high voltage breakdown

HVL—hypervelocity launcher

HVP—hypervelocity projectile

HVPS—high voltage power supply

HVR—high voltage ratio

HVTS—head and video transmission subsystem

H/W-hazardous waste

HWC—hardware component

HWCI-hardware configuration team

HWG-hydrodynamic group

HWMF—Hazardous Waste Management Facility

HWR—heavy water reactor

HWS—Hartmann wavefront sensing

HWT—hypersonic wind tunnel

HX—heat exchanger

HYDAC—1. hybrid dynamic (material) control2. hybrid digital-to-analog converter

Hz—hertz (unit of frequency; also known as cycles per second)

Hz/s—hertz (or cycles) per second

Ι

- I—integrity (one of the five corporate values; see L, Q, R, and T)
- IA—1. implosion assembled 2. interface adapter3. independent assessment 4. incident action
 - 5. instrument air

IABTI—International Association of Bomb Technicians and Investigators

IAC—image analysis chip

IACMAG—International Association for Computer Methods and Advances in Geomechanics

IACRO—interagency cost reimbursement order

IACS—International Annealed Copper Standard

IACSE—Interagency Advisory Committee on Security Equipment

IADS—igloo access denial system (This system has evolved into the weapon access delay system: WADS.)

IAEA—International Atomic Energy Agency (Vienna, Austria)

IAEP—International Assessment of Educational Progress

IAG-interagency agreement

IAI—1. Israel Aircraft Industries 2. International Association for Identification

IAM—International Association of Machinists (SNL/CA)

IANUS—integrated analysis of nuclear systems (computers)

IAS—1. Institute of Aerospace Sciences 2. item accounting system

IASTED—International Association of Science and Technology for Development

IATA—International Air Traffic Association

IAW-in accordance with

ibid.—*ibidem* (in the same place)

IBM—1. intermediate-range ballistic missile (see IRBM)2. International Business Machines, Inc.

IC—1. integrated circuit (or chip) 2. inductance capacitance 3. intracloud 4. integrated contractor 5. internal combustion 6. Incident Commander 7. isolation condenser

I/C—injector/combustor

- I&C—instrumentation and control
- ICA—item-controlled area
- ICAO—International Civil Aviation Organization
- ICADS—integrated correlation and display system
- ICB—1. interconnecting box 2. interface control board
- ICBM-intercontinental ballistic missile
- ICCB—interconnecting cable and control box
- ICCD—intensified charge-coupled device
- ICCTT—International Consultative Committee for Telephone and Telegraph
- ICD—interface control document (or drawing)
- ICE—1. internal combustion engine 2. intelligence computing environment 3. interactive concurrent engineering 4. interactive collaborative environment
- ICECO—Implicit Continuous Eulerian Containment Code (computers)
- ICECO-H—ICECO hydrodynamic
- ICECO-HT---ICECO heat transfer
- **ICEPEL**—ICECO piping and elbow (analysis)
- ICF—1. insurance continuance fund 2. inertial confinement fusion
- ICFAX—integrated circuit failure analysis expert
 (system)
- ICFM-in-core fuel management
- ICM—interim corrective measure
- ICMG—intelligence community modeling group
- **ICN**—interim change notice
- ICO/FAO—integrated contractor order and federal agency order

- ICP-MS—inductively coupled plasma mass spectrometry
- ICPN—integrated combat procedures (nuclear)
- ICPP—Idaho Chemical Processing Plant
- ICRU—international commission on radiological units (and measurements)
- ICRP—International Council on Radiation Protection
- ICS—1. intermittent control system 2. Intelligence Center School (Army) 3. integrated contractor system 4. inventory control system 5. incident command system
- ICT—1. International Critical Tables 2. intercase transfer 3. interface control team
- ICU—1. interconnecting unit 2. interface control unit 3. integrated control unit
- ICV—1. inner containment vessel 2. intimate container vault
- icw—interrupted continuous wave (e.g., Morse code)
- ID—1. inside diameter 2. identification 3. image dissector 4. integrate demonstration (site)
 5. Idaho Operations Office (DOE)
- **IDA—1.** intrusion detection alarm **2.** Institute for Defense Analysis
- IDAS—integrated data acquisition system
- IDB—integrated database
- **IDD**—integrated data denial (decryption)
- IDE—1. intrusion detection equipment 2. interactive development environment
- IDEA—integrated development environment and assistance
- **IDL**—interdisciplinary laboratory
- IDLH-imminent danger to life or health

IDMM—integrating digital multimeter (computerized measurement)

IDO—internal distribution only

IDP—1. integrated data processing **2.** intrusion detection process

IDS—1. integrated diagram system 2. information display system 3. intrusion detection system

IDSN—integrated digital services network

IDST—intrusion detection system technology

IDU-interface demonstration unit

i.e.—id est (that is)

IE or **I&E**—inspection and enforcement (or evaluation)

IE-industrial engineering

IEA—International Energy Agency

IEC—International Electrochemical Commission

IECE—intersociety energy conversion engineering

IED—1. individual effectiveness development2. improvised explosive device

IED/PEP—individual effectiveness development and performance enrichment program

IEDS—improvised explosive device sterilizer

IEEE—Institute of Electrical and Electronics Engineers, Inc.

IEG—independent evaluation group

IEIT—integrated engineering information technology

IEMATS—improved emergency message automatic transmission system

IEMP—internal electromagnetic pulse

IER—1. information engineering release2. internal engineering release

IES—illuminating Engineering Society

IESCS—internal (or integrated)/external security and C² systems

if or IF-intermediate frequency

IFA—ionization front accelerator

IFC-in-flight control

IFD-in-flight-disconnect (connector)

IFE-in-flight extraction

IFF—identification, friend or foe

IFI—1. in-flight insertion 2. inspector follow-up
item

IFM—1. interface memorandum **2.** interfacial force microscope

IFR-ion-focused regime

IFRF-International Flame Research Foundation

IFRL—International Flame Research Foundation

IFRS—intelligent facial recognition system

IFS—integrated file system

IFSAR—interferometric synthetic aperture radar

IFV—infantry fighting vehicle

IG—1. inertia guard (sensor) 2. interconnecting group 3. Inspector General

IGB-inner-German border

IGES—1. initial graphic exchange standard

2. initial graphics exchange specification

3. interactive graphics exchange system

IGFM-internal gamma flux monitor

IGS—1. interior guard station 2. IONDS global segment

IGUA—International Guards Union of America (obsolete; now Independent Security Police Association)

IGZ—indicated ground zero

IH—1. industrial hygiene 2. inert head 3. inner housing

IHD—in-house dissertation

IHE—insensitive high explosive (see CHE)

IHEM—In-house Energy Management (WIPP)

IHG—in-house general (software)

IHP—in-house preparation

IHS—1. isotopic heat source 2. in-house special (software)

IHTS—intermediate heat transport system

IHX—intermediate heat exchanger

IIE—Institute of International Education

IIF—interest income fund (formerly AT&T GIF)

IIR—interim IEMATS replacement

IIS—interagency information study

ILAB—inter-laboratory advisory board

ILC—Individualized Learning Center

ILF—infra-low frequency

ILH—imploding linear hohlraum

ILLW-intermediate-level liquid waste

ILRT—integrated leak rate test

ILS—integrated logistics support

ILSP—integrated logistics support plan

ILT—inter-line transfer

ILW-intermediate-level liquid waste

Im-imaginary

IMDI—integrated manufacturing design initiative

IMETS—integrated meteorological system

IMF—1. Improved Message Facility 2. Integrated Maintenance Facility 3. Intermediate Maintenance Facility

IMFWG—interagency metal forming working group

IMO—International Maritime Organization

IMOG—1. interagency manufacturing operations or oup 2. interagency mechanical operations group

IMP—1. intelligent mobile platform 2. integrated mission processing

IM-PMT—information management/ process management team

IMR—integrated management requirement

IMRL—Integrated Materials Research Laboratory

IMS—1. intrusion monitoring system 2. ion mobility spectrometer (or spectrometry)3. image management system

IMTL—Integrated Manufacturing Technologies Laboratory

IMU—inertial measurement unit

in.-inch or inches

In—indium (chemical symbol)

IN—intelligence

I/N—inspection and maintenance

INAIGAP—indium aluminum gallium phosphide

INC—insertable nuclear component

IND—improvised nuclear device

INE—inertial navigation element (or equipment)

INEL/CAMAS—Idaho National Engineering Laboratory/Central Alarm Monitoring and Assessment System

INEPT—insensitive nucleus enhancement by polarization

inf-inferior

INF-intermediate-range nuclear force

INMM—Institute of Nuclear Materials
Management

INOF—Integrated Nuclear Operations Facility

INPO—Institute of Nuclear Power Operations

InRad or INRAD—intrinsic radiation

in./s—inches per second (use ips for wire and tape speeds)

INS—1. inertial navigation system 2. Immigration and Naturalization Service3. information management system

INSAR—integrated nuclear safety analysis report

INSI—initial nuclear safety (or surety) inspection

INSPEC—Information Services for Physics, Electronics, and Computing

INTEC-in-hours technical education course

INU—inertial navigation unit

IO-intelligence officer

I/O—input/output

IOC—initial operational capability

IOCD—initial operational capability date

IOCS—input/output control system

IOIS—input/output interface system

IOM—inert operational missile

IONDS—integrated operational NUDET detection system

IORV—inadvertently opened relief valve

IOS—1. Institute of Oceanographic Sciences2. input/output subsystem (Cray)

IOSAFS—integrated optical safety, arming, and firing system

IOU—International Octel Users

IP—1. integrated perimeter 2. initial production3. integration project (or program) 4. interface processor

IPA—individual performance award

IPARS—integrated procurement/accounts (payable and) receiving system

IPB—illustrated parts breakdown

IPC-interprocess communication

IPD—implementation phase document

IPDP—individual personnel development plan

IPE—individual plant examination

IPF-image processing function

IPG—interproject group

IPL—Information Processing Language (computers)

IPlan-Implementation Plan

IPM—integrated pest management

IPP—industrial partnership program

IPPPS—integrated perimeter physical protection system

IPR—in process of review

ips—inches per second (used for wire and tape speeds) (see in./s)

IPS—1. information procurement system2. integrated procurement system

IPS/E-integrated procurement system/ extended

IPS/R—integrated procurement system/
 replacement

IPST—initial production systems test Ir—iridium (chemical symbol)

IR-1. infrared radiation 2. insulation resistance

IRI—industrial risk insurer

IRA—1. impact ratio analysis 2. International Research Association

IRBM—intermediate-range ballistic missile (often called IBM)

IRBS—intermediate-range booster system

IRC—inspection record card

IR&D—1. industry research and development2.internal research and development

IRE—Institute of Radio Engineers

IREP—Integrated Reliability Evaluation Program

IRIG—inter-range instrumentation group

IRIS—1. infrared intrusion sensor 2. intelligent robotics inspection system 3. imaging radicals intersecting with surfaces 4. Incorporated Research Institutions for Seismology 5. integrated risk information system

IRM—1. isothermal remanent magnetization

2. information resources management

3. interim remedial measure

IRMA—IR modeling and analysis

IRMS—integrated resource management system (obsolete, now integrated services management system) IRN—internal restricted network (SNL)

IROE—intelligent robot operating environment

IRQ-interrupt request

IRRV—intermediate-range reentry vehicle

IRS—interim recovery system

IRSSY—infrared signature system

IRT-inactive record transfer

IRU—item reporting units

IRV—interim reentry vehicle (parachutes)

IR/V/UV—infrared/visible/ultraviolet

IS—1. information system 2. information service3. inactive stockpile

I/S-inflation/spin-up

ISA—1. International Security Affairs 2. International Standard Atmosphere 3. enertial sensor assembly 4. industry standard architecture 5. interservice support agreement
6. Instrument Society of America

ISAAC—in-hours stand-alone computer course

ISAS—integrated small artillery synthesis

ISAT—information systems advance team

ISB—independent sideband (modulation)

ISC—1. Instrument Sector Committee (subdivision of ANMC) 2. integrated systems checkout

ISD—1. interface sequence document2. instructional systems design

ISDN—integrated services digital network

ISE—1. ideas in science and electronics2. ion selective electrode

ISEC—insider (or internal) security

- ISEM—insider safeguards effectiveness model
- ISFSI—independent spent-fuel storage installation
- ISHM—International Society for Hybrid Microcircuits
- ISHTE-in-situ heat-transfer experiment
- ISI—1. Internal Systems, Inc. 2. Integral Systems,Inc. 3. Institute for Scientific Information4. in-service inspection
- ISIMU-ISHTE simulation
- ISIS—1. integrated storm information system2. integrated security information system
- ISIT—intensified silicon intensified target
- ISLR—integrated sidelobe ratio
- ISLS—intent stronglink switch
- ISN—internal secure network (SNL)
- ISMS—integrated services management system (replaces IRMS)
- ISO—1. International Standards Organization2. International Security Operations
- ISO OSI—ISO open systems interconnect
- **ISOSHLD**—isotope shielding calculations (computers)
- ISP—1. integrated simulator program2. Inter-national Security Policy
- ISPA—Independent Security Police Association (formerly International Guards Union of America)
- ISPO—International Safeguards Project Office
- ISR—1. interrupt service routine 2. International Survey Research (Corporation)
- IS&RC—Intelligent Systems and Robotics Center
- **ISS**—intergrated security system

- ISSN—international standard serial number
- ISSW—International Symposium on Shockwaves
- IST—1. integrated simulated testing 2. infrared search and track 3. in-situ treatment 4. inservice testing
- ISTEA—Intermodal Surface Transportation Efficiency Act
- ISTM—International Society for Testing Materials
- ISTV—intra-site support transport vehicle
- ISV—1. in-situ vane 2. in-situ vitrification
- **ISVP**—individual small value purchase
- IT—Italy
- I&T—integration and testing
- ITA—independent technical assessment
- ITC—1. International Training Course 2. Integrated Textile Complex
- ITER—International Thermonuclear Experimental Reactor
- ITI—1. ion track instrument 2. incoming test and inspection
- ITL-intent to launch
- ITMS—ion trap mass spectrometer
- ITOSS—intent trajectory operated signal source
- **ITP**—international technology program
- ITR—information technology resources
- ITRI—Inhalation Toxicology Research Institute
- ITS-Integrated Tiger Series
- ITU—International Telecommunications Union
- ITV—1. improved tow vehicle 2. instructional television

ITW&A—integrated tactical warning and assessment

ITW/AA—integrated tactical warning/attack assessment

IUO—insulated uranium oxide

IUQS-intent unique signal

IV-independent verification

IVAF—independent vulnerability assessment facility

IVAN—independent vulnerability analysis

IVHS—intelligent vehicle highway system

IVR—interactive voice response

IVSN—initial voice swithed network (NATO)

IV&V—independent validation and verification

IWDR—interim weapon development report

IWG—interface working group

IWRP—indutrial waste reduction program

IX-ion exchange

J

J-joule (work, energy, quantity of heat)

JA—job assignment

JAAF—Joint Action Armed Forces

JAAN—Joint Action of the Army and Navy

JAC—Joint Apprenticeship Committee (or Council)

JAD—Joint Application Design

JAERI—Japanese Atomic Energy Research Institute

JAIEG—Joint Atomic Information Exchange Group (US/UK) JANNAF-Joint Army, Navy, NASA, Air Force

JANUS—name of the Nd glass laser system

JAWS—just another weld simulator

JAWTIG—Joint Atomic Weapon Technical Information Group

JB—junction box

JBFSAW—Joint Board on Future Storage of Atomic Weapons

JCFM-Joint Chiefs of Staff Memorandum

JCL—control language commands for controlling job flow

JCMPO—Joint Cruise Missile Project Office

JCO-justification for continued operation

JCS—Joint Chiefs of Staff (DoD)

JCSAN—JCS alerting network

jct-junction

J/deg-joule per degree

JDL—Joint Directors of Laboratories (DOE)

JDSSC—Joint Data Services Support Center

JEAC—Joint Electric Armaments Committee

JEDEC—Joint Electron Device Engineering Council

JEEP—Joint Emergency Evaluation Plan

JERI—Japan (Atomic) Energy Research Institute

JET—Joint European Tours

JEWC-Joint Electronic Warfare Center

JFET—junction field-effect transistor

JFSC—Joint Firearms Safety Committee

JFTP—Joint Flight Test Plan

JI-Johnston Island

JIIC—junction-isolated integrated circuit

JINMM—Journal of the Institute of Nuclear Materials Management

JINTACCS—Joint Interoperability for Tactical Command and Control Systems

JIT—1. joint interface test 2. Just-in-Time (purchasing system)

JITF-Joint Interface Task Force

J/K—joule per kelvin

JMH—Joint Mission Hardware

jmp—jump

JNACC—Joint Nuclear Accident Coordinating Center

JNWPS—Joint Nuclear Weapons Publication System

JOCG—Joint Ordnance Commanders Group

JOM—Journal of Minerals

JON-judgment of needs

JOPES—Joint Operation Planning and Execution System

JOR-Joint Operational Requirement

JOSS—Johnniac open shop system (computers)

JOTS—Joint operational telephone system

JOVIAL—Jules (Schwartz) Version of the International Algorithmic Language (computers)

JOWOG—Joint Working Group (US/UK bilateral defense agreement)

JPL—Jet Propulsion Laboratory

JPMO-Joint Program Management Office

JPT-Journal of Petroleum Technology

JRADS—Joint response assessment data system

JRC—1. Joint Reconnaissance Center 2. Joint Research Center (Ispra, Italy)

JRERE—Journal of Radiation Effects, Research and Engineering

JRMB—Joint Requirements and Management Board (formerly DSARC)

JRSC—jam-resistant secure communications

JRSWG—Joint Reentry Systems Working Group Agreement (US/UK)

JSA-job safety analysis

J-SIDDS—Joint Services interior intrusion detection system

JSP—jacketed soft point

JSR—jump to subroutine

JSSIN-Joint staff system information network

JSSIS—Joint staff support information system

JSSP—Joint stockpile sampling program

JSTPS—Joint strategic target planning staff

JTA—Joint test assembly

JTACMS—Joint tactical missile system

JTAG—Joint test action group

JTC³A—Joint Tactical Command, Control, and Communications Agency

JTF—Joint task force

JTFC—Joint Tactical Fusion Center

JTG-joint task group

JTIDS—Joint tactical information distribution system

JTPR—Joint technology panel for robotics

JTS-Joint test subassembly

JTSMG—Joint theatre surety management group

JTU-Joint test unit

JTWG—Joint test working group

JVE—Joint verification experiment

JWG—Joint working group

K

k—kilo (prefix indicating 10³)

K—1. kelvin (thermodynamic temperature; since 1967 the degree symbol has been discontinued with K)
2. kayser (unit of reciprocal length, known as rydberg)
3. thousands: e.g., \$10K = \$10,000
4. kilobyte (sometimes written kbyte or KB)

kA-kiloampere

KAFB—Kirtland Air Force Base (NM)

KAO-Kirtland Area Office (DOE)

KAVE—K-nearest neighbor average

kb—kilobar (also kbar); kilobit

KB—kilobyte (see kbyte)

Kbar-kilo bar

kb/s or kbps—kilobits per second

kbyte—kilobyte (see K or kbyte)

kc—kilocycle (obsolete; use kHz instead)

KC or KCP—Kansas City Plant (see BKC or AS/KCD)

KC3—Kirtland Community Coordinating Council

kcal—kilocalorie (also known as kilogram-calorie, kg-cal)

KCAO—Kansas City Area Office (DOE)

KCAS—knots calibrated airspeed

KCD—Kansas City Division of the Allied Signal Aerospace Corporation (also see AS/KCD and BKC)

kCi-kilocurie

kc/mol-kilocalories per mole

kc/s—kilocycle per second (use Hz instead)

KE-kinetic energy

ker--kernel

keV-kilo electron volt

KEW—kinetic energy weapon

KF—key finding

kft—kilofeet (SI units preferred)

kg-kilogram

kG—kilogauss

KGB—Soviet Ministry of State Security (translation)

kg cal—kilogram-calorie (see also kcal)

kgf-kilogram force

kgm-kilogram·meter

Kg-m²—kilogram-meter squared

KH-reconnaissance satellite series designator

kHz-kilohertz

KI—stress intensity factor for Mode I crack opening (see KIc)

KIAS—knots indicated airspeed

KIc—critical stress intensity factor for Mode I crack opening (see KI)

kin-kinetic

kip-kilopound

kJ-kilojoule

KKR-Korringa-Kohn-Rostoker

kL-kiloliter

km-kilometer

km/h-kilometer per hour

KMR-Kwajalein Missile Range

KMS—KMS Fusion Inc.

km/s—kilometers per second

kn-knot (speed)

KN or kN-kilonewton

kNM-kilo nautical miles

kohm-kilo ohm

KOP-knowledge of process

KOR—knowledge of results

KP—known precedent

K&P—Koogle and Pouls (Engineering)

KPL—Key Personnel Locator

KPP—Knowledge Preservation Project

krad-kilorad

KREMS—Kierman reentry measurement system

Krf-krypton-fluoride

KSC—Raman Sciences Corporation

kt-kiloton

KTACS—Korean tactical air control system

KTAS—knots true airspeed

KTF-Kauai test facility (Hawaii)

KUMD—know, understand, manage, and document

KUMSC—Kirtland Underground Munitions Storage Center (or Complex)

kV—kilovolt

kVA—kilovolt ampere

kvar-kilovar

KVM-Kerr voltage monitor

kVp—kilovolt potential

kW-kilowatt

kWe-kilowatt of electrical energy

kWh-kilowatt hour

KWI—key word index

kWt-kilowatt of thermal energy

L

L—1. Since Nov. 16, 1976, the capital L has been used as the US symbol for liter. This is because the lower case L (l) can be confused with the numeral 1. (See *The Metric Reporter*, 4:26 dated December 24, 1976 or Office Procedure Manual II dated February 24, 1978. 2. lambert (unit of luminance) 3. loop 4. leadership (one of the five corporate values; see I, Q, R, and T) 5. link (as in L1)

LA—limited area

LAAO—Los Alamos Area Office (DOE)

LAARC—lightweight, air-transportable, accident-resistant container

LABCOM—Laboratory Command (Army: Adelphi, MD)

LAC—lightning arrester connector

LACE—low (power) atmospheric compensation experiment

LADAR—1. laser detection and ranging 2. laser radar

LADD—low angle drogue delivery

LAFO—Los Alamos Field Office (DOE)

LAMP—Lagrangian measurement platform

LAMPF-Los Alamos Meson Physics Facility

LAN-local area network

LANCE—dual capable, shortrange missile (Army)

LANL—Los Alamos National Laboratory

LANTCOM—Atlantic Command

LANTIRN—low altitude navigation targeting infrared night

LAP—Livermore assessment program

LAPRADS—low altitude parachute retrorocket air-drop system

LARS—laser articulated robotic system

laser—light amplification by stimulated emission of radiation (originally an acronym, but now accepted as a word)

LASL—Los Alamos Scientific Laboratory (obsolete; see LANL)

LASS—1. laser spark spectroscopy 2. large area smoke system

lat---latitude

LAT—1. lock and tumbler 2. local area terminal (or transport) 3. lot acceptance test

LATA—Los Alamos Technical Associates

LAV—light armored vehicle

LAW-light anti-tank weapon

LAZAP—laser application

lb-pound

lbf—pound force

lbf/ft—pound force per foot

lb/ft—pounds per foot

lb/ft²—pounds per square foot (see psf)

lb/ft³—pounds per cubic foot (sometimes written as pcf, but lb/ft³ is preferred)

lb/in.—pounds per inch

1b/in²—pounds per square inch (also psi)

LBL—Lawrence Berkeley Laboratory

lbm—pound mass

LBNL—Lawrence Berkeley National Laboratory

LBR—large breeder reactor

LBRV—large ballistic recovery vehicle

LBTS—land-based test site

LC—1. liquid chromatography 2. liquid crystal
3. load car 4. laser communication 5. labor costs 6. lethal concentration 7. locked closed

LCAC—landing craft air cushion

LCB—Laboratory Coordinating Board

LCC—1. lifecycle cost 2. Launch Control Center3. launch control console

LCCA—leadless chip carrier assembly

LCD—1. local control and display 2. liquid crystal device (or display)

LCE—1. laboratory component evaluation 2. launch control error

LCF—latent cancer fatalities

LCG—launch control group

LCM—least common multiple

LCO—limiting condition of operations

LC-SC—1. launch control to security control 2. launch control security car

LCSS—lightweight camouflage screening system

LCT—laboratory component test

LCTF—lost circulation test facility

LCTP—laboratory component test program

LD—1. laser diode 2. lethal dose 3. laydown 4. logistics demonstration

L/D-1. link/diameter 2. lift/drag

LDA—lasar diode array

LDAS—laboratory document accountability system

LDI—1. (Bell) Laboratories design information2. laser diode ignition

Ldn—equivalent day/night (sound level)

LDR—land disposal restriction

LDRD—Laboratory-directed Research and Development

LDS-laser dazzle sight

LDV—laser Doppler velocity

LDW-loss damage waiver

LE—1. low explosive 2. low exposure

LEAP—1. Livermore Employees Assistance Plan (or Program) 2. lightweight exoatmospheric projectile

LEBA—line source electron beam annealing

LECS—liquid effluent control system

LED—light-emitting diode

LEE—logistical evaluation exercise

LEED—low-energy electron diffraction

LEF—laser-excited fluorescence

LEG—logistical evaluation group

LEGM—low energy gamma monitor

LEHR—Laboratory for Energy-related Health Research

LEL—lower explosive limit

LEMUF—limit of error on material unaccounted for

LEPC—local emergency planning committee

LER—licensee event report

LERC—1. Lewis Research Center **2.** Laramie Energy Research Center

LES—1. launch enable switch 2. loaded equipment section

LET-linear energy transfer

LETC—Laramie Energy Technology Center

LEV—local exhaust ventilation

If or LF—1. low frequency 2. live fire

LFBSR—linear feedback shift register

LFE—1. L-band front end 2. liquid field emission

LFL—lower flammable limit

LFR—live fire range

LGB-laser-guided bomb

LGVSS—light grid vault surveillance system

LH-labor hour

LHe-liquid helium

LHP—1. Lovelace Health Plan (NM) 2. leadless hermetic package

LHX—light-helicopter experiment

LIC—low-intensity conflict

LICA—low-intensity cobalt array

LiD—lithium deuteride

LIDAR—light detection and ranging

LIF-laser-induced fluorescence

LIFE—analysis of in-pile fuel elements (computers)

LIFO—last-in, first-out

LiH—lithium hydride

LIHE—light-initiated high explosive

lim-limit

lim inf-limit inferior

lim sup—limit superior

lin-1. lineal 2. linear

linac—linear accelerator

LINC—Laboratory information network committee

LINK—Laboratory information network

LINPACK—a massively parallel benchmark problem

LIOCS—logical input/output control system (computers)

LIPS—laboratory integration and prioritization system (part of ISMS)

LIRB—lithium ion rechargeable battery

LIS—Laboratory information system

LISA—linear infrared scanning array

LISN—line impedance stabilization network

LISP—list processing (computers)

Li/Tc—lithium thionyl chloride

LIVA—light-induced voltage alteration

LIWG—line implementation working group

LJT-Long-Junior Trilock

LKKR-layered Kohn, Korringa, and Rostoker

11—live load

LLA—1. launch loader adapter 2. lowest logical airfare

LLC—limited-life component

LLCE—limited-life component exchange

LLD—1. low level delivery 2. lower limit of detection

LLE—launch location error

LLGPT—low level general-process trash

LLL—1. low light level (optics) 2. low level logic (computers)

LLMW-low level mixed waste

LLNL—Lawrence Livermore National Laboratory

LLRW—low level radioactive waste

LLRWPA—Low Level Radioactive Waste Policy Act

LLTB—long life thermal battery

LLW—1. low level waste (nuclear waste technology) 2. leaky Lamb wave

lm—lumen (luminous flux)

LMCS—loop multiplexer communication system

LMEAT—Line Managers' ES&H Action Team

LMF—1. Laboratory Microfusion Facility2. Large-Scale Melt Facility3. local monitoring facility

LMFBR-liquid metal fast breeder reactor

lm/ft2—lumens per square foot

lm/m²—lumens per square meter

LMMS—land mobile missile system

LMOS—loop maintenance operations system

LMR—1. limited message retriever 2. liquid metal reactor

lm-s—lumen second

LMSC—Lockheed Missile and Space Company (Sunnyvale, CA)

lm/W—lumens per watt

In-logarithm (natural) (see log)

LNA—low noise amplifier

LNG—liquified natural gas

LNP—loss of normal power

LO—1. local oscillator 2. low observable 3. locked open

LOA—leave of absence

LOB—1. line of business 2. launch operations building

LOC-1. limited operational capability 2. loss of communication 3. level of concern

LOCA—loss-of-coolant accident

LOCAAS—low-cost, anti-armor submunition

LOCAP—low capacitance (cable)

loc.cit.—*loco citato* (in the place cited)

LOCUSP—low-cost uncooled sensor prototype

LOCV—loss of condenser vacuum

LOD—letter of determination

LOF—loss-of-flow (accident)

LOFAR—low frequency acquisition and ranging

LOFT—loss-of-fluid test

log—logarithm (common); see ln

LOGCAP—logistics and command assessment of projects

long—1. longitudinal 2. longitude

LOOP—loss of offsite power

LORAN—long-range navigation

LOS—line-of-sight

LOTA—loss of target accident

LOTO-lockout/tagout

LOTS—lightweight optical tracking system

LOV—letter of violation

LOW—launch on warning

LOX—liquid-oxygen explosive

LP—1. liquid propellant 2. linear programming

LPCVD—low-pressure chemical vapor deposition

LPE—liquid-phase epitaxy

LPF—low pass filter

LPG—1. liquified petroleum gas 2. liquid propellant gun

LPI—1. low probability of intercept **2.** low pressure injection

LPLIF—laser-photoanalysis, laser-induced fluorescence

lpm—line pairs per millimeter

LPPP—low pressure pump pad

LPRS—low pressure recirculation system

LPRSX—low pressure recirculation system (heat) exchanger

LPR—laboratory process reengineering

LPS—laser plasma source

LPSS—line protection switching system

LPSW—low pressure service water

LPT—line printer

LQ—limited quantity

Lr—Lawrencium (chemical symbol)

LR-1. letter requirement 2. light replica

LRA—long-range aviation

LRAM—long-range attack missile

LRD—light replica decoy

LRF—laser resonant fluorescence

LRINF—long-range intermediate nuclear force

LRIP—low rate initial product

LRMDS—lightweight radar mine detector system

LRP—1. long-range plan 2. lightweight retractable pole

LRSP—long-range security plan (or program)

LRU—line replaceable unit (module)

LS—1. launch system 2. loaded salary 3. loop seal

L/s—liters per second (use ft³/min instead)

LSA—1. ogistic support analysis 2. low specific activity

LSB—least-significant bit (computers)

LSC—1. linear-shaped charge 2. Life Safety Code (NFPA 101)

LSD—least-significant digit (computers)

LSE—liaison element

LSG—laboratory support group

LSI—large-scale integrated (circuit)

LSO—1. laser safety officer **2.** Lovelace senior options

LSTC—Livermore Software Technology Corporation

LSTS—1. launch system test set 2. launch system test sequence

LSWD—large screen wall display

LT-laser tracker

LTA—less than adequate

LTC—limited try count

LTD—long-term disability

LTE—local thermodynamic equilibrium

LTG—Laboratory Task Group

LTGen.—Lieutenant General

LTH—lethality and target hardening

LTI—launch test inert

LTIV-launch test inert vehicle

LTPD—lot tolerance percent defective

LTPE—laboratory test program evaluation

LTRA—long term response action

LTSPME—long-term savings plan for management employees

LTSSP—long-term savings and security plan

LTU—laboratory test unit

LTV-Ling-Temco-Vought

LUA—launch under attack

lub-least upper bound

LUG—local user's group

LUST—leaking underground storage tank

lux—the SI unit of illumination, equal to 1 lumen per square meter

LVC-load verification code

LVDT—linear variable displacement transformer

LVPS—low voltage power supply

LVT—1. linear velocity transducer 2. landing vehicle tracked

LVTB—low voltage thermal battery

LWC—1. liquid water content (climatology)
2. lost workday case

LWG—logistic working group

LWIR—long wavelength infrared

LWIS—lightweight instrumentation system

LWR—light water reactor

LWRP-Livermore Water Reclamation Plant

lx—illuminance (use lux)

LY-low yield

M

μ—micro- (AIP still uses micron, which they list as μ. Many Sandia scientists also use micron in certain instances.)

μA-microampere

µAh—microampere hour

µC—microcoulomb

μF-microfarad

μ**g/m³**—do not use μ**g**/mcu

µJ-microjoule

μm—micrometer (formerly called micron; see μ-above)

us—microsecond (do not use usec)

m-meter

m-—milli (a prefix indicating 10⁻³)

M—1. millions (Use with dollar sign: \$14 M)
2. mole 3. molarity (chemistry) 4. mega (a prefix indicating 10°) 5. moment (magnitude)
6. molarity (chemistry)

M---mega (prefix indicating 106)

 $m\Omega$ —milliohm

MΩ-megohm

mA—milliampere

MA—1. mega ampere 2. management associate (or aide) 3. military application 4. maintenance

M&A—maintenance and assembly (Army)

M.A.—Master of Arts

MAA—1. mission area analysis 2. material access area

M.AACS—MELCOR Accident Consequence Code System

MAAG—Military Assistance Advisory Group

MAB—Marine amphibious brigade

MABE—mega ampere beam experiment (accelerator)

MAC—1. material accountability computer
2. Military Airlift Command 3. modified auxillary closure

MACCS—MELCOR accident consequence code system

MACOM-Major Command

MACS—1. multiple-application coded switch 2. multiple-application computer system

MACY—Military Assistance Command, Vietnam (US)

MAD—1. maintenance, assembly, and disassembly (atomic weapons) 2. magnetic anomaly detection

MADDS—machine-aided design definition system (computers)

MADM—medium atomic demolition munition

MADT—microalloy diffused transistor

MAF—1. Marine Amphibious Force 2. moisture ash free

mag---magnetic

MAGIC—manual-aided gaming of integrated combat (an electromagnetic particle-in-cell code)

MAGID—magnetic intrusion detector

MAGLEV—magnetic levitation

MAGLOC—magnetic logic computer

MAGTF-Marine Air Ground Task Force

mAh-milliampere hour

MAID—1. monitor adapter isolation device 2. magnetic anti-intrusion detector

MAIT—matrix analysis of the inside threat

MAN—Management Assurance Notebook

MANAR—modular adaptable network for alarm reporting

MANOP-Manganese Nodule Program

MANOS—spanish word for hands. (Program is designed to help spanish speakers in science and engineering.)

MANTECH-Manufacturing Technology

MAP—1. macroassembly program (computers)2. mass analysis of particulates 3. Mitigation Action Plan

MAPS—1. modular azimuth positioning system
2. multiple automated printing system

MAR—1. major article release 2. major assembly release

MARGE/SLUMP—fuel slumping (computers)

MARRS—mobile autonomous robotics research system

MARS—module autonomous robotics system

MARV—maneuverable (or maneuvering) reentry vehicle

MAS—1. material accountability system2. multi-application surety3. mine safety appliances

MASC—1. manned automated security console 2. marine automated security console

MASER—microwave amplification by stimulated emission of radiation

MASP—mobile automatic scanning photometer

MASS—modular advance search system

MaST—maneuvering systems technology (or test) (sometimes written as MST)

MAST—1. multiple application (sometimes seen as multi-application) surety technology 2. multi-axis seam tracking

MatResLib—material response library

MATV—master antenna television (system)

MAUS—mobile automated ultrasonic scanner

MAVIS—modeling and analysis of valve interactions (computers)

MAW-medium assault weapon

MAWP—maximum allowable working pressure

max-maximum

MAXH—maximum homogeneity

mb—millibar (sometimes written mbar)

Mb-megabit

MB-machine basin

MB or Mbyte—megabyte

MBA—1. material balance accounting 2. management, budget, and accounting 3. main battle area 4. Masters of Business Administration

MBB—modular building block

MBC—meteor burst communication

MBE—molecular beam epitaxy

MB/EE—Brazilian designator for a ballistic missile series

MBFR-mutual and balanced force reduction

MBN-Marine battalion

MBNQA—Malcolm Baldridge National Quality Award

MBO—management by objective

MBPS—megabits per second (use Mb/s)

Mb/s—megabits per second

MBS—modified bremsstrahlung

MBWA—managing by walking around

Mbyte—megabyte (see MB)

mC—microcoulomb

Mc—megacycle (obsolete; use MHz)

MC—1. major component 2. manual chapter3. military characteristics 4. management controls

MCA—1. multichannel analyzer 2. maximum credible accident 3. material condition and aging

MC&A—material control and accountability

MCAAP—McAlester Army Ammunition Plant

MCC—1. missile combat crew 2. Microelectronics and Computer Corporation

MCCS—1. multiple-code coded switch 2. mobile command and control system

MCCSS—multiple-code coded security switch

MCD—1. Mail Channel Directory 2. monitor control and display

M/CD—mental (health) chemical dependency

MCF-magnetic confinement fusion

mCi-millicurie

MCi-megacurie

MCL—1. maximum containment level 2. maximum contaminant level 3. maximum concentration limit

MCLG—maximum contaminant level goal

MCM—1. mine countermeasures 2. main control module 3. mission control module 4. manual control module 5. multichip module

MCP—1. microchannel plate 2. medical care plan 3. monolithic colliding pulse 4. mission check (word) processor 5. missile consent panel

MCR—medical clearance for respiratory (protection)

MCS—1. maintenance control system 2. maneuver control system 3. master control system

MCTL—militarily critical technologies list

MCU—multiplexer control units (computers)

md-median

mD—millidarcy (geology)

Md—mendelevium (chemical symbol; sometimes written as Mv)

M&D—maintenance and development

MDA—1. methylene dyaniline 2. minimum detectable activity (or amount)

MDAC/OEC—McDonnell Douglas Astronautics Company/Opto Electronics Center

MDD-Mission Data Directory

MDE—manufacturing development engineering (program)

MDF—1. mild detonating fuze 2. main distribution frame

MDI—methylene disphenyl isocyanate

MDL—1. minimum detectable level 2. Microelectronics Development Laboratory

MDM—microminiature D-shape metal

MDMSC—McDonnell Douglas Missile Systems Company

MDR-mandatory dry run

MDTD—minimum detectable temperature difference

MDTI—McDonnell Douglas Technologies, Inc.

MDU—munitions dummy unit

Me-mass of electrons

MEAFSA—Middle East, Southern Asia and Africa (South of the Sahara)

meas—measure; measurement; measurable

MEASIM—measurement simulation (computers)

MEBES—manufacturing electron beam exposure system

MEC—Microsystems Engineering Corporation

MEIDS—1. militarized electronic information delivery system 2. miniaturized electronic information delivery system

MEK—methylethylketone

MEL—1. material on external loan 2. monitoring exposure level (or logic) 3. master equipment list

MELIOS—mini-eye-safe laser infrared observation set

MELT—multiple-channel analysis of top accidents (computers)

MEP—mobile electric power

MEPS—multimedia environmental pollutant (assessment) system

MER—material evaluation reactor

MERADCOM—Mobility Equipment Research and Development Command (Fort Belvoir, VA)

MERIT—mutual efforts to reduce industrial toxins (EPA)

MES—management evaluation sheet

MESA—Eulerian hydrocode development at LANL (see CTH)

MESFET—metal electrode semiconductor fieldeffect transistor

MESH-HAZ—medical, environment, safety, and health hazards

MESH-HP—medical, environment, safety, and health/health physics

MET—MCCS encryption translator

METADEX—metals (abstracts and alloys) index

METC—Morgantown Energy Technology Center

meV-millielectron volt

MeV—megaelectron volt

MEW-microwave early warning

mf or MF-medium frequency

mF-microfarad

MF-main fuel

MFC-multifuel combusotr

MFD—1. multi-functional display 2. military first destinations

MFE—magnetic fusion energy

MFI-magnetic flashover inhibition

MFIS—mosaic filter image sensor

MFL—maximum foreseeable loss

MFLOPS—million floating point operations per second (computers)

MFM—magnetic force microscopy

mfp-mean free path

MFRFS—manufacturing facilities request for support

MFS—microwave fence sensor

MFW-main feedwater

MFWCS—main feedwater and condensate system

mg-milligram

MG—motor generator

MGA—monochrome graphic adapter

mgallon-million gallons

MGD—million gallons per day

MGH—mass, gravity, height

MGM-mobile-guided missile

MGS—1. missile guidance set 2. mobile ground system

mH-millihenry

MHB-medium-height burst

MH/CD-mental health/chemical dependency

mhd-magnetohydrodynamic

MHF—massive hydraulic fracturing

MHTGR-modular high-temperature gas reactor

mHz-millihertz

MHz—megahertz (use instead of megacycle)

mi—mile (statute)

MI—1. military intelligence 2. moments of inertia

M&I—Maintenance and Inspection (Air Force Facility)

MIAC—maintenance information and control

MIB—master interconnect board

MICD—mechanical interface control drawing

MICOM—Missile Command (Army)

MICSS—mobile integrated C³ and security system

MID-material identification document

MIDAS—1. management information and data access system 2. mobile intrusion detection and assessment system 3. mobile instrumentation and data acquisition system

MIDEP—mine detection energetic photons

MIDS—miniaturized intrusion detection system

MIFASS—Marine-integrated fire and air support system

mi/h or mph—miles per hour

MIIP—management information and integration program (project or plan)

MIIT—materials interface interactions test

MIL—1. military 2. military (standard) (DoD)

MILCON—military construction

MILES—1. magnetic intrusion line sensor 2. multiple-integrated laser engagement system

millirem—see mrem

MILNET-military network

MILSPEC—military specification

MILSTAR—military strategic/tactical and relay

MILVAN—a standard military freight container

MIMD—multiple instruction, multiple data

min-1. minute 2. minimum

MINIMAGID—miniature magnetic intrusion detector

MINISID—miniaturized seismic intrusion detector

MinNet—minimization network (waste)

MINT—miniature instrumental nosetip test

MIP—material in process (formerly MUF: material unaccounted for)

MIPR—military interdepartmental procurement request

MIPS—MIVS image processing system

MIR—managing interpersonal relationships

MIRA—microwave infrared alarm

MIRED—microreciprocal degree

MIRSS—mobile individual resource security system

MIRV—multiple, independently (targetable) reentry vehicle

MIRVAL—mirror evaluation (computer program for heliostats)

MIS—1. metal-insulator semiconductor 2. management information services (or system)

misc-miscellaneous

MISER—minisensor relay (system)

MISR—1. modular industrial solar retrofit
2. multi-angle imaging spectroradiometer

MISS-modular intelligent sensor system

MIT-Massachusetts Institute of Technology

MITE—magnetically insulated transmission experiment

MITL—1. man-in-the-loop 2. magnetically insulated transmission line

MITMS—military/industry technical manual specification

MIU-missile interface unit

MIVS—modular integrated video system

mJ-millijoule

Mk or MK—Mark, a bomb designation; it is followed by a number: Mk 5 (Army uses: MK5)

Mkg-megakilogram (use Gg instead)

MKS or mks-meter-kilogram-second

mL—1. milliliter (also ml, but mL is preferred)
2. millilambert

MLC-Military Liaison Committee

MLRS—multiple-launch rocket system (Army)

MLS—1. member of the laboratory staff 2. multilevel secure

MLS/MIS—member of the laboratory staff who has experience or educational background in management information systems

MLST-member of laboratory staff trainee

MLT—1. munitions lift (or load) trailer
2. median lethal time

mm-millimeter

mM-millimole

MM—1. Minuteman (missile) 2. memory module3. formerly Martin-Marietta, now Lockheed-Martin 4. meets most

MMA—1. materials measurement and accounting
2. Martin Marietta Aerospace (Orlando, FL)

MMAD—mass median aerodynamic diameter

MMC—Martin Marietta Corporation

MMDC—master message display console

MMES-Martin Marietta Energy Systems

mmf-magnetomotive force

mmHg-millimeter of mercury, (also milliHg)

MMI—man-machine interface

MMIC—monolithic microwave integrated circuit

mmol-millimole

MMP—maintenance management program

MMRBM—mobile medium-range ballistic missile

MMS—1. maintenance management system2. mission management system3. munitions maintenance squadron

MMSC—Martin Marietta specialty components

mmu-milli-mass unit

mmW-millimeter wave

Mn—manganese (chemical symbol)

MNCR—material non-conformance report

MNOS—metal-nitride-oxide semiconductor

MNR-mononitroresorcinate

mo-month

Mo—molybdenum (chemical symbol)

MO—move order

M&O—management and operations (or managing and operating)

MOA—memorandum of agreement

MOAC—Management Oversite Advisory Committee

MOAS—missile ordnance arm switch

MOB—main operating base

MoC/MOC/M of C—maintenance of capability

MOC—1. material operation computer 2. margin of control

MOCVD—metal-organic chemical vapor deposition

mod-1. modification 2. model

MOD—Ministry of Defense

Mod/Alt—modification/alteration (sometimes written mod/alt)

ModComp—trade name for Modular Computer Systems, Inc.

MODEM—modulator demodulator (computers)

MODFET—modulation-doped field-effect transistor

MODIL—Manufacturing Operations Development and Integration Laboratory

MOFFF—mixed-oxide fuel fabrication facility

Mohm-megaohm

MOI-1. moment of inertia 2. magneto-optic (eddy current) imager

mol—mole (often spelled out, but can also be M)

mol %--mole percent

mol wt-molecular weight

MOLINK—Moscow to Washington (DC) direct line communication link

MOM-method of moments

MONAL—Mobile Nondestructive Assay Laboratory

MOPS—million operations per second

MORT—management oversight and risk tree (accident investigations)

MOS—1. metal-oxide semiconductor 2. metal-oxide silicon 3. military occupational specialty 4. maintenance, out of service

MOSFET—metal-oxide-semiconductor, field-effect transistor

MOTION—analysis of head motion due to HCDA loads (computers)

MOU—memorandum of understanding

Mound—Monsanto Research Corporation, Mound Facility

MOV—1. metal oxide varistor 2. motor operated vechile

MOVPE—metal organic vapor-phase epitaxy

MOX-mixed-oxide

mp—1. melting point 2. mean (effective) pressure 3. multipulse

MP—1. Military Police 2. maintenance procedure 3. massively parallel 4. message processor

MPa-megapascal

MPAC—Microelectronics and Photonics Applications Center

MPC-maximum permissible concentration

MPCC-multifunction peripheral controller chip

MPD-maximum permissible dose

MPE—maximum permissible exposure (radiation)

MPG—1. midplate, midgyre 2. managing professional growth

mph or mi/h-miles per hour

MPI—multiphoton ionization

MPL—maximum possible loss

MPLS-multiphenomena line sensor

MPP—1. massively parallel processor 2. memory phrase pairs

MPR—material-penetrating radar

MPRSA—Marine Protection, Research, and Sanctuaries Act (1972)

MPU-1. microprocessor unit 2. Marx pulser unit

MQ—management qualifications

MQRC—Microelectronics Quality/ Reliability Center

MQW-multiple quantum well

mr or mrad-milliradian

mR-milliroentgen

MR-1. missile range 2. material requisition 3. military regions 4. mortality range

MRA—1. monetary recognition award 2. missile relay assembly 3. military research associate

mrad or mr-milliradian

Mrad-megarad

MRBM-medium-range ballistic missile

MRC-maintenance requirement card

MRD-Management Review Division (DOE)

mrem—millirem (sometimes written as millirem)

MRG—multiple-range gates

MRI—magnetic resonance imaging

MRL-multi-purpose rotary launchers

MRO—1. memory read out 2. maintenance, repair, and operating 3. medical review officer

MRR—minimum residual radioactivity

MRS-1. material requisition schedule

- 2. material requirement schedule
- 3. microwave ranging system
- 4. Materials Research Society
- 5. monitored retrievable storage

MRST-management restructure study team

MRT—minimum resolvable temperature

MRTD—minimum resolvable temperature difference

MRV—maneuvering reentry vehicle

MRVT—multirate voice terminal

ms-millisecond (do not use msec)

m/s-meters per second

mS-millisiemens

MS—1. mass spectrometer (or spectrometry)

- 2. monitor and support 3. motion sensor
- 4. military service 5. medical services

MSA—1. mine safety appliances 2. major system acquisition

MSAD—1. mechanical safe and arm detonator 2. mechanical safe arming device

MSB—most significant bit (computers)

MSBR-molten-salt breeder reactor

MSC—Major Subordinate Command (NATO)

MSCA—multi-site cooperative agreement

MSCF—1. Master Surveillance and Control Facility 2. thousand standard cubic feet

MSCU—missile secure cryptographic unit

MSD—most significant digit (computers)

MSDS—material safety data sheet

MSE—multiple subscriber equipment

MSEE-molten-salt electric experiment

MSG-Marine Security Guard

MSHA-Mine Safety and Health Administration

MSI-1. medium-scale integrated (circuit)

2. multiple sensor interface

msl or MSL-mean sea level

MSLB—main steam-line break

MSMJ—mechanically stacked, multijunction

MSP—marine sediment penetrometer

MSR—1. molten-salt reactor 2. maintenance service request 3. modular surveillance radar

MSRC—multicrystalline silicon research consortium

MSRV—medium single (targeted) reentry vehicle

MSS—1. mass storage system 2. multi-spectral scanner 3. mission support system

MSSA-master safeguards and security agreement

MSSTF—midtemperature solar systems test facility

MST—1. medium-scale technology 2. maneuvering systems test (or technology) (see MaST)

MSTA—materials sample test apparatus

MSTC—Maquila Sandia Technology Consortium

MSTRS—miniature spacecraft threat reporting system

MSX-midcourse sensors experiment

mt-metric ton

Mt-megaton (see kt)

MT—1. manufacturing technology 2. measured time

MTA-multi-threat analyzer

MTAC—Machine Tool Access Center

MTBCF—mean time between critical failure

MTBF—mean time between failures

MTBOMF—mean time between operational mission failures

MTC-Metal Trandes Council

MTCC—Modular Tactical Communications Center

MTCR—Missile Technology Control Regime

MTE—measuring and test equipment

MTF-modulation transfer function

MTFPP—modular tactical force protection package

mtg-meeting

MTHM—metric tons heavy metal

MTI—1. Mechanical Technology, Inc. 2. multispectral thermal imager 3. moving target indicator 4. maintenance team inspection

MTL—master tester list

MTO-material transfer order

mTorr—millitorr

MTPM—mean time to perform (preventive) maintenance

MTR—mean time to restore

MTS-member of the technical staff

MTSAA—multidiscipline technical safety assurance appraisal

MTTF-mean time to failure

MTTFF—mean time to first failure

MTTR—mean time to repair

mtU-metric tons uranium

MU—monitoring unit

MUF—material unaccounted for (obsolete; now material in process: MIP)

MULE—modular universal laser equipment

MUMS—munitions maintenance squadron

MUNSS—munitions support squadron

MUSE—multidimensional user-oriented synthetic environment

MUX-1. multiplexing equipment 2. multiplexer

mV-millivolt

Mv—mendelevium (chemical symbol) (Md is preferred)

MV-megavolt

MVPD-median volume pore diameter

MVS-multiple virtual storage

mW-milliwatt

MW—1. megawatt (electrical) 2. microwave3. mixed waster 4. missile warning 5. mine warfare

MWd-megawatt-day

MWDS—missile warning display system

MWe-megawatt (electrical); use MW

MWLID—mixed-waste landfill integrated demonstration

MWMF—mixed waste management facility

MWO-modification (or maintenance) work order

MWR-morale, welfare, and recreation

MWRTS—millimeter wave radio telephone system

MWSA—Manzano weapons storage area

MWth-megawatt, thermal

MWX—Multiwell Experiment (DOE-sponsored Field Laboratory)

Mx—maxwell (a unit of magnetic flux)

MXB—a commercial name for modified phenolic, glass-fabric filled ammonia

MX-1. Peacekeeper ICBM 2. missile

MY-man-year

mya-myriare (10,000 acres)

myL-myrialiter

mym-myriameter

M/Z—mass-to-charge ratio

MZI-Mach-Zehnder interferometry

N

n—nano- (a prefix indicating 10⁻⁹)

n-neutron

N—1. newton (unit of force) 2. normal (chemistry) 3. nose

nA—nanoampere

NA—1. not available 2. not applicable 3. nu-merical aperture 4. network adapter

NAAMM—National Association of Architectural Metal Manufacturing

NAAQS—national ambient air quality standards

NAARP—national aging aircraft research program

NAB—National Association of Broadcasters

NACE—National Association of Corrosion Engineers

NACFE—National Association of Certified Fraud Examiners

NACOA—National Advisory Committee on Ocean and Atmosphere

NAD—nuclear accident dosimeter

NADC—Naval Air Development Center

NAEP—National Assessment of Educational Progress

NAFEMS—National Agency for Finite Element Methods and Standards

NAHAMMER—Sodium (Na) Fluid-HAMMER Analysis (computers)

NAL—National Aerospace Laboratory (Japanese)

NALAP—Sodium (Na) Version of ReLAP (computers)

NAND—not-AND (computer logic)

NANS—Nuclear Agency, Nuclear Security

NAP-NAS aperture package

NAPAP—National Acid Precipitation Assessment Program

NAPSAC—Naval Atomic Planning, Support, and Capabilities

NAR-nuisance alarm rate

NARA—National Archives and Records Administration

NARL—Naval Arctic Research Laboratory

NARM—naturally (occurring or) acceleratorproduced radioactive materials

NARS—National Archives Records Service

NAS—1. NDS antenna system 2. Netview Access Services 3. nuclear assembly system 4. Naval Air Station 5. National Academy of Sciences

NASA—National Aeronautics and Space Administration

NASP—nuclear ammunition supply point

NATO—North Atlantic Treaty Organization

NATRAN—Sodium (Na) Transient Analysis (computers)

NAV-1. navigation 2. net asset value

NAVAIR—Naval Air Systems Command

NAVELEX—Navy Electronics Systems Command

NAVEODTECHCEN—Naval Explosive Ordnance Disposal Technology Center

NAVFORV-Naval Forces, Vietnam

NAVMAT—Naval Material

NAVSEA INST—Naval Sea Institute

NAVSWC-Naval Surface Weapons Center

NAWC—Naval Air Weapons (or Warfare) Center

nB-nanobarn

NBC—1. nuclear, biological, chemical 2. non-base compensation

NBBPVI—National Board of Boiler and Pressure Vessel Inspectors

NBDS—nuclear-burst detection system

NBL—New Brunswick Laboratory

NBS—National Bureau of Standards (now National Institute of Standards and Technology: NIST)

NC-1. normally closed 2. numerically controlled 3. nitrocellulose 4. noise criterion

NC2—nuclear command and control

NCA—1. National Contingency Act 2. National Command Authority

NCAICM—National Center for Advanced Information Components Manufacturing

NCAM-National Center for Advanced Materials

NCAR—nonconformance action report (see NCR)

NCAW-neutralized current and waste

NCB—Nuclear Contingency Branch

NCC-Network Control Center

NCCLS—National Committee for Clinical Laboratory Standards

NCEM—National Center for Electron Microscopy

NCF—no containment failure

nCi—nanocurie (10⁻⁹ curies)

NCM—nonconforming material

NCMA—National Contract Management Association

NCMS—National Center for Manufacturing Sciences

- NCO-noncommissioned officer
- NCOSE—National Council on Systems Engineering
- NCP-1. National Contingency Plan 2. National (Oil and Hazardous Substances) Contingency Plan
- NcPTD—near-field physical theory of diffraction (code)
- NCR—1. nonconformance report (see NCAR)2. no clearance required
- NCRP—National Council on Radiation Protection (and Measurement)
- NCRW-neutralized cladding removal waste
- NCS—1. neutron control system 2. network computing system 3. national communications system
- NC²SG—Nuclear Command and Control Steering Group
- NCSS—Naval Coastal Systems Station
- NCTTA—National Competitiveness Technology Transfer Act
- NCURE—National Center for Ultra-Reliability Engineering
- ND—1. not determined 2. no date 3. neutral density
- NDB—nuclear depth bomb
- NDE-nondestructive evaluation
- NDEW—nuclear-driven (or directed) energy weapon
- NDI—1. nondevelopment item 2. nondestructive inspection
- NDP—nuclear detonation pathway
- NDPC—National Disclosure Policy Committee

- NDR—1. NUDET detection report 2. Nuclear Defense Research (Corporation)
- NDRO—nondestructive readout (computers)
- NDS—NUDET detection system (or nuclear detection system)
- ND/SB-nuclear depth/strike bomb
- **NDT**—nondestructive test (or testing)
- NDTWG—Nevada Test Site Development and Transport Working Group
- NE-nuclear energy
- NEA—1. Nuclear Energy Agency 2. nuclear explosive area (or assembly)
- NEACP—National Emergency Airborne Command Post
- **NEC**—National Electrical Code
- NECOSHA—National Electrical Code OSHA
- **NEDS**—nonviolent explosive destruct system
- NEE—noise equivalent emissivity
- neg-negative
- NEG-net energy gain
- NELA—nuclear explosive-like assembly
- NELIAC—Navy Electronics Laboratory International ALGOL Compilers (computers)
- NELM—Naval Forces Eastern Atlantic and Mediterranean
- **NEMA**—National Electrical Manufacturers Association
- NEODTC—Naval Explosive Ordnance Disposal Technology Center
- NEP—1. NAS electronics package 2. noise equivalent power 3. nuclear explosive package
- NEPA—National Environment Policy Act

NEPB—NEST Executive Planning Board

NER-network equipment rack

NERP—National Environmental Research Park

NERVA—nuclear engine for rocket vehicles application

NES-1. nuclear explosive safety 2. National Energy Strategy

NESC—1. National Electric Safety Code 2. National Energy Software Center

NESD—Nuclear Explosive Safety Division (DOE)

NESEC—Naval Electronics Systems Engineering Center

NESHAP—national emission standards for hazardous air pollutants

NESS—nuclear explosive safety study

NESSG-nuclear explosives safety study group

NEST—nuclear emergency search team

NET—1. new equipment training 2. noise equivalent temperature

NETD—noise equivalent temperature difference

NETOG—nuclear explosive tester oversight group

NETS—National Emergency Telecommunications System

nf-noise factor

nF-nanofarad

NFA—no further action

NFARS—NORAD rorward automated reporting system

NFH—nonflammable hydraulic (fluid)

NFPA—1. National Fire Protection Act 2. National Fluid Power Association NFPQT—nuclear facilities personal qualification and training

NFS—1. nuclear fuel services 2. network file system (computers)

NG-1. neutron generator 2. nitroglycerine

NGB-National Guard Bureau

n/gs-neutron per gram-second

NGS-NUDET ground station

nH-nanohenry

NH-Nike Hercules

NHL—next higher level

NHPA—National Historic Preservation Act

Ni—nickel (chemical symbol)

NIAM—Natural Language Information Analysis Methodology

Ni-Cad or nicad—nickel-cadmium

Ni-Cr-P—nickel-chromium-phosphorous

NIDM—NMCC information for decision makers

NIDS—1. NMCS information display system 2. NATO intrusion detection system

NIFFTE—noncooperative, identify friend or foe technology evaluation

NIH—National Institute of Health

NIHL—noise-induced hearing loss

NII—National Information Infrastructure

NIIS—National Information Infrastructure Superhighway

NIIT—National Information Infrastructure Testbed

NIJ-National Institute of Justice

NIM-nuclear incident monitor

NIOSH—National Institute of Occupational Safety and Health

NIPDE—National Initiative for Product Data Exchange

NIS—New Independent States (former Soviet Republics)

NISC—Naval Intelligence Support Center

NISDN—NATO integrated services digital network

NISP-National Industrial Security Program

NIST—National Institute of Standards and Technology (or Testing) (formerly National Bureau of Standards: NBS)

NITF—national imagery transmission format

NKEW-nuclear kinetic energy weapon

NLO-Naval Liaison Organization

NLRA—National Labor Relations Act

NLRB—National Labor Relations Board

NLT-not later than

NLU-normal latch up

NLW-nonlethal weapon

NM—does not meet required performance

nm-nanometer

N/m²—newton per square meter

N·M—newton meter

NMAB—National Materials Advisory Board

NMAS—nuclear material accountability system

NMC-National Microelectronics Center (SNL)

NMCC—National Military Command Center

NMCI—National Military Intelligence Center

NMCS—National Military Command System

NMED—1. New Mexico Environmental
Department 2. New Mexico Educational
Development

NMEI—New Mexico Environmental Institute

NMERI—1. New Mexico Energy Research Institute 2. New Mexico Engineering Research Institute

NMFAC—New Mexico (site-wide) facilities (and maintenance)

NMFT—new materiel flight test

NMHRC—New Mexico Human Rights Commission

nmi-nautical mile

NMI—Nuclear Materials, Inc.

NMIS—1. nuclear material inspection and storage 2. nuclear material identification system

NMLT—new materiel laboratory test

NM MESA—New Mexico Mathematics Engineering Science Achievement

NMMS—nuclear material management system

NMMSS—nuclear materials management and safeguards system

NMOS—nitrous metal-oxide semiconductor

NMP—nuclear materials production

NMR—nuclear magnetic resonance

NMRDI—New Mexico Research and Development Institute

NMRO—Nuclear Monitoring Research Office

NMSAS—New Mexico (site-wide) security and safeguards

NMSEP—new material and stockpile evaluation plan

NMSPE—New Mexico Society of Professional Engineers

NMSS—Nuclear Material Safeguards and Security

NMST—new material system testing

NMSU—New Mexico State University

NMTP—National Machanic Tool Partnership

NMUSTR—New Mexico Underground Storage Tank Regulations

NMVO—New Mexico Volunteers for the Outdoors

NMWQCCR—New Mexico Water Quality Control Commission Regulations

NNAPS—night navigation and pilot system

NNF—National Nanofabrication Facility

NNK-nonnuclear kill

NNT—nonnuclear testing

NNTRP—National Nuclear Test Readiness Program

NNWSI—Nevada Nuclear Waste Storage Investigation

No—nobelium (chemical symbol)

NO-1. normally open 2. nitric oxide

NOA—notice of availability

NOAA—National Oceanographic and Atmospheric Administration

NOAEL—non-observed adverse effect level

NOAM—nuclear ordnance Air Force materiel

NOCM—nuclear ordnance commodity management (or manager)

NOCSIM—nitrate-to-oxide conversion simulation (computer code)

NOD-notice of deficiency

NOF-NORAD Offutt

NOHSCP—National Oil and Hazardous Substances Contingency Plan

NOI-notice of intent

NOIWON—National operations and intelligence watch officer's network

nom-nominal

NON—notice of noncompliance

NONEL--nonelectric

NO OP—no operation (computers)

NOCM—nuclear ordnance commodity management (or manager)

NOP—1. nuclear operations policy 2. Nuclear Ordnance Platoon 3. normal operating procedure

NOR—not-OR (computer logic)

NORAD—North American Air Defense (Command)

NORC-nuclear ordnance record card

NORDA—Naval Ocean Research and Development Activity

NORESS—Norweigan Regional Seismic Station

NORM—naturally occurring radioactive material

NORSOC—Nevada Occurrence Reporting System Operations Office

NORTHAG—Northern Army Group (NATO)

NOS—1. network operating system 2. NATOOffice of Security 3. Naval Ocean Systems4. not otherwise specified

NOSC-Naval Ocean Systems Center NOSO—nuclear ordnance supply officer NOSS—nuclear ordnance shipping schedule **NOV**—notice of violation NOWR—nuclear ordnance war reserve Np-1. neptunium (chemical symbol) 2. neper (logarithmic ratio) NP—nonproliferation NPAR—Nuclear Plant Aging Research (Program) NPB—neutral particle beam NPBW-neutral-particle-beam weapon **NPDES**—national pollution (or pollutant) discharge elimination system NPDWA—National Primary Drinking Water Act NPES—nuclear planning and execution system **NPF**—nuclear permission to fire NPG—nuclear planning group **NPL**—National Priorities List **NPN**—negative-positive-negative NPP—1. nuclear plot production 2. nuclear pilot production 3. nuclear power plants **NPR**—new production reactor

NPRDS—nuclear plan reliability data system

NPSS-Nuclear and Plasma Sciences Society

NPRM—Notice of Proposed Rulemaking

supplies

NPS—1. nuclear power system 2. nuclear power NPT-Nonproliferation Treaty; also, Treaty on Nonproliferation of Nuclear Weapons: TNNW

5. non-reusable container NRDA—natural resource damage assessment NRDC-Natural Resources Defense Council NREL—National Renewable Energy Laboratory **NRF**—Naval Reactors Facility NRHC—National Register of Historic Places NRL—Naval Research Laboratory NRR-1. Nuclear Reactor Regulation 2. noise of reduction rating NRRSI—nonregular recurrent security inspector NRS—NDS receiver subsystem NRSA—Norwegian regional seismic array NRT—national response team **NRV**—nosetip recovery vehicle (parachutes) NRZ—non-return to zero ns—nanosecond (do not use *nsec*) NS—1. nuclear safety 2. nonsurvivable 3. nuclear systems NSA-1. National Security Agency 2. Nuclear Security Agency NSAC-1. National Security Activities Committee 2. National Security Advisory Committee 3. Nuclear Safety Analysis Center **NSAFE**—nuclear safety (evaluation)

NPTF—nuclear permission to fire

NQM—National Quality Month

NQAA—Nuclear Quality Assurance Agency

NRC—1. Nuclear Regulatory Commission

2. Newport Research Corporation 3. National Research Council 4. National Response Center NSC-1. National Security Council 2. National Space Council 3. National Safety Council

NSDD—National Security Decision Directive

NSF-1. net square feet 2. National Science Foundation 3. National Strike Force

NSI—1. national security information 2. nuclear surety inspection

NSIC—Nuclear Safety Information Center

NSL—1. National Storage Laboratory 2. nuclear surety link

NSLS—National Synchrotron Light Source

NSM—nuclear strike message

NSNF—nonstrategic nuclear force

NSO-network security officer

NSPE—National Society of Professional Engineers

NSPI—National Society for Performance and Instruction

NSPS—new source performance standards

NSRDC—Naval Ship Research and Development Center

NSS—1. national stockpile site 2. National Seismic Station 3. nuclear safeguards and security

NSSS—nuclear steam supply system

NSTEP—National Small-business Technology Exchange Program

NSTTF—National Solar Thermal Test Facility

NSU—negotiations support unit

NSWC—Naval Systems Weapons Center

NSWG—nuclear safety working group

NSWSES—Naval Ships Weapons Systems Engineering Station NSZ—national sacrifice zone (Rocky Flats)

nt-nit (luminance)

NTA—nitiloriacetic acid

ntc-negative temperature coefficient

NTC-National Training Center (Fort Irwin, CA)

NTDS—Naval tactical data system

NTE—naval test and evaluation

NTI—national technology initiative

NTIK-nontechnical instrumentation kit

NTIS—national technical information service (or system)

NTM—national technical means

NTNCWS—non-transient, non-community water system

ntp-normal temperature and pressure

NTP—national transuranic (waste) program

NTPI—Navy Technical Proficiency Inspection

NTRB—Nuclear Technology Reference Book

NTS—Nevada Test Site

NTSB—National Transportation Safety Board

NTSC-1. National Television Standards (or System) Committee 2. National Transportation Systems Center

NTSO—Nevada Test Site Office

NTU—1. nephelometric turbidity units 2. National Technological University

NUC-nuclear

NUCSLU—nuclear station logic unit

NUCWA—nuclear weapons accounting (system)

NUDET—nuclear detonation (and detection)

NUFAC—Nuclear Facilities (Resource Center)

NUMARC—Nuclear Management Resources Council

NuPac-Nuclear Packaging, Inc.

NUREG—A number issued for an NRC document

NUSC—Naval Underwater Systems Center

NV—Nevada Field Office (DOE) (see NVO)

NVA—North Vietnamese Army

NVD—1. nonviolent disablement 2. night-vision device

NVEOL—Night-Vision and ElectroOptical Laboratory

NVI—new ventures initiative

NVO—Nevada Field Office (DOE); now NV

nW-nanowatt

NW-nuclear weapon

NWAI—nuclear weapons acceptance inspection

NWC—1. Naval Weapons Center 2. Nuclear Weapons Complex 3. Nuclear Weapons Council

NWCSC—Nuclear Weapons Council Standing Committee

NWCT—nuclear weapons critical technologies

NWC/WSC—Nuclear Weapons Council/Weapons Safety Committee

NWD—1. nuclear weapon data 2. nuclear weapon design

NWDG—nuclear weapon development guidance

NWEF—Naval Weapons Evaluation Facility (Kirtland Air Force Base)

NWER-nuclear weapon effects research

NWET-nuclear weapon effects test

NWIU-nuclear weapon interface unit

NWLE-nuclear weapons liaison element

NWM—nuclear weapon (or warhead) management

NWMP—nuclear waste management program

NWP—nuclear weapon production

NWPA—Nuclear Waste Policy Act

NWRP—nuclear weapons release procedures

NWRS—1. nuclear weapon response system2. nuclear weapon requirement study

NWRT—nuclear waste repository technology

NWSB-Nuclear Warfare Status Branch

NWSM—Nuclear Weapons Stockpile Memorandum

NWSS—1. nuclear weapon subsystem 2. nuclear weapon system safety

NWSSG—nuclear weapon systems safety group

NWSSTG-nuclear weapon subsystem test group

NWSSTP—nuclear weapon subsystem test plan

NWTI—nuclear weapons technical inspection

NWTS—nuclear waste terminal storage

NWTSHEG—nuclear weapon transportation safety hazard evaluation group

O

 Ω —ohm

O—oxygen (chemical symbol)

OA-office automation

OAA—office administrative assistant

OAC—Office of Arms Control

OACNP—Office of Arms Control and Non-Proliferation (Systems)

OAD—1. ordnance available date 2. operational availability date

OADR—originating agency's determination (is) required

OALD-off-axis laser detection

OAR—operation assessment and readiness

OAS—1. Office Automation Subcommittee 2. offensive avionics aystem

OASDC³I—Office of the Assistant Secretary of Defense Communications, Command, Control, and Intelligence

OASPL—overall sound pressure level

OAU—Origin of African Unity

OAWG—office automation working group (obsolete; now laboratory information network: LINK)

OBA—operating basis accident

OBD-on-base disposal

OBES—Office of Basic Energy Sciences

OB/OD—open burning/open detonation

obs-observed

OC-1. open circle 2. outside circumference 3. outer chuck

OCAW—oil, chemical, and atomic workers

OCB-oil circuit breaker

OCC—Office of Chief Counsel (DOE)

OCE—operations control element (or equipment)

OCI—organizational conflicts of interest

OCM—operational change memo

OCN—organization change notice

OCONUS—outside contiguous United States

OCR—1. operational change report 2. optical character recognition

OCRWM—Office of Civilian Radioactive Waste Management

OCS-1. outer continental shelf 2. on-scene commander

OCSA—order compliance self-assessment

OCSAP—order compliance self-assessment program

OCV—1. overcharged voltage 2. outer containment vessel

OD-1. optical density 2. outside diameter

ODC—ozone-depleting chemical (or compound)

ODE—ordinary differential equation

ODES—operational deployment experiment simulator

ODF—ODES development flight

ODS—ozone-depleting substances

ODTX—one-dimensional time to explosion

Oe—oersted (do not use this unit of magnetic field flux)

OE—1. optical engineering 2. order expert 3. optoelectronics

OEA—Office of External Affairs (DOE)

OEC—Optoelectronics Center

OECD—Office for Economic Cooperation and Development

OEM—original equipment manufacturer

OEMT—operational emergency management team

OEPO—Office of Emergency Plans and Operations

OER—operating experience report

OESH—Office of Environment, Safety, and Health (DOE/AL)

OEST—Office of Energy, Science, and Technology (DOE)

OET—operational employment test

OFA—other federal agencies

OFB—output feedback

OFC—Organizational Facility Coordinator

OFCCP—Office of Federal Contract Compliance Program

OFFE—Office of Federal Facilities Enforcement

OFP—operational flight program

OFR—office furniture request

OFS—operational flight software

OGS—Overseas Ground Station

OH—outer housing

OHE—occupational health examiner

OHEG—organization and human effectiveness group

OHL—over high limit

OHMTADS—oil and hazardous material technical assistance data system

OI—operating (or office) instruction

O&I—operation and inspection

OIDA—Optoelectronics Industry Development Association

OIDT—operator-interactive display terminal

OIE—Office of Inspection and Enforcement

OIG—1. operations interface group 2. Office of the Inspector General

OIS-ordnance initiation set

OISA—Office of International Security Affairs

OIT—Office of Industrial Technologies

OJCS—Organization of the Joint Chiefs of Staff

OJT-on-the-job training

OL—operating location (or limit)

OLE—object linking and embedding

OM-occurrence management

O&M—operation and maintenance

OMA—1. Office of Military Application (DOE)2. Office of Management and Administration (DOE)

OMB—Office of Management and Budget

OMG—Operational Maneuver Group (Soviet)

OMI—Office of Medical Investigator

ONDP—Office of National Defense Programs (DOE)

ONOP—off-normal operating procedure

ONPG—operations nuclear planning group

ONR—Office of Naval Research

ONT—Office of Naval Technology

ONWI—Office of Nuclear Waste Isolation (Battelle Memorial Institute)

OOH-out of hours

OOL-out of limit

OOPS—object-oriented programs symbols (computers)

OOS—Office of Operational Safety (DOE HQ)

OOSS—overseas operational storage site

OP—operating procedure

OPA—Office of Planning and Analysis

OPAC—Operations (Office for) Arms Control

OpAmp—operational amplifier

OPCC—Offutt Processing and Correlation Center

op. cit.—opere citato, in the work cited

OPCW—American Translation: International Chemical Weapon Inspectorate

OPD-operational plan document

OPDAR—optical direction and ranging

OPEC—1. Organization of Petroleum Exporting Countries 2. On-Premises Educational Committee

OPEIU—Office and Professional Employees International Union

OPD—operational plan document

OP-FTIR—open path Fourier transform infrared spectrometer

OPM—1. Office Procedures Manual 2.Operations Performance Monitor

OPMODEL—operational model

OPNAV—Office of the Chief of Naval Operations

OPORD—operational order

Ops—operations

OPSEC—operations security

OPSEL—option select

OPTASM—optical target signature model

OPTEVFOR—Operational Test and Evaluation Force (Navy)

OPX—off-premise extension

OQP—organizational quality plan

OR-1. Oak Ridge 2. occurrence report 3. operations requirements 3. operational readiness

Oralloy-original meaning: Oak Ridge alloy

ORISE—Oak Ridge Institute for Science and Education

ORLA—optimum repair-level analysis

ORM—other required material

ORNL—Oak Ridge National Laboratory

ORO—Oak Ridge Operations (DOE)

ORPS—occurrence reporting and processing system

ORR—operation readiness review

ORRIBLE—Oak Ridge reactor inlet blockage code (computers)

ORS—organization reconstruction system

ORTA—Office of Research and Technology Applications

ORV-off-road vehicle

Os—osmium (chemical symbol)

OS—1. operating system 2. office of space

OSA—Optical Society of America

OSAG—office systems advisory group

OSAP—operational survivability assessment program

OSC-1. on-scene commander 2. oscilloscope

OSD—Office of the Secretary of Defense

OSE—Office of Security Evaluations

OSHA—1. Occupational Safety and Health Administration 2. Occupational Safety and Health Act

OSHWPP—occupational safety and health worker protection plan

OSI—open systems interconnect

OSIA-on-site inspection agency

OSL—optically stimulated luminescence (see COSL)

OSM—on-site monitor

OSNP—Office of Space Nuclear Projects (DOE)

OSO-offensive systems officer

OSP—1. operational safety procedure **2.** Office of Special Projects (DOE)

OSR—1. operational safety requirements 2. operational safety report

OSS—1. Office of Safeguards and Security (DOE)2. operational storage site 3. operating system software

OSSP-outstanding student summer program

OST—operational suitability test

OSTD-off-site technical director

OSTI—Office of Scientific and Technical Information (DOE)

OSTP—Office of Science and Technology Policy

OSWER—Office of Solid Waste and Emergency Response

OT—operational test

OTA—Office of Technology Assistant

OTD—Office of Technology Development

OTDR—optical time-domain reflectometry

OT&E—operational test and evaluation

OTEA—operational test and evaluation agency

OTEC-ocean thermal energy conversion

OTF—optical transfer function

OTH—over the horizon

OU-operable unit

OUO-official use only

OV-1. Office Vision 2. organic vapor

OVA—organic vapor analyzer

OWBPA-Older Worker Benefits Protection Act

OWI—Office of Waste Isolation (now Office of Nuclear Waste Isolation)

Oy—orralloy (35U)

OYOC—one-year-on-campus

oz-ounce

P

p—pico- (a prefix indicating 10⁻¹²)

p—1. proton 2. page (plural is pp)

P—1. peta- (a prefix indicating 10¹⁵) (Not to be used for *poise* in dynamic viscosity) 2. precision 3. phosphorous (chemical symbol)

4. Pershing Missile (as in Pershing II or PII)

5. property 6. pressure

Pa—1. protactinium (chemical symbol) 2. pascal (unit of pressure or stress)

pA—picoampere

PA-1. power amplifier 2. prearmed

3. public address 4. pressure adviser

5. protected area **6.** production agency

7. position analyzer 8. progress assessment

9. preliminary assess-ment

- PAA—1. primary aircraft authorization 2. procurement action approval
- PAAA—Price Anderson Amendments Act
- PAAC—program analysis adaptable control
- PAB—1. Project Advisory Board 2. Packaging Advisory Board
- PABX—private automatic branch exchange
- PAC-1. Pershing airborne computer 2. Physical Acoustics Corporation
- PACA—Professional Aerospace Contractor's Association
- PACAF—Pacific Air Force
- PACCS—post-attack command control system
- PACE—plant and capital equipment
- PACES—pressurized-air-combustor exhaust simulator
- PACOM—Pacific Command
- PACPADS—Portsmouth alarm communication processing and display system
- **PACX**—Private Automatic Computer Exchange
- PAD—1. procurement action documentation2. Pajarito dynamics (computers)
- PADAR—passive detection and ranging
- PADS—procurement assistance data system
- PAG—protective action guide
- **PAGOSA**—a data-parallel version of the shockwave physics code: MESA
- PAHR—postaccident heat removal
- PAIR—powered air purifying respirator
- PAL—1. permissive action link 2. phase alternate line 3. programmable array logic 4. protective action levels 5. program area leader

- **PAM—1.** pulse-amplitude modulation **2.** prearm monitor **3.** pulse-accumulation module
- PAMTRAK or Pam Trak—personnel and material tracking (system)
- **PAN—1.** peroxyacetylnitrate **2.** percussion actuated nonelectric (disrupter)
- PAO—1. Pinellas Area Office (DOE) 2. public affairs officer
- **PAP—1.** performance action plan **2.** personnel assurance program (or plan)
- PAPS—permissive arming and protection system
- par-1. paragraph 2. parallel 3. parenthesis
- **PARCC**—precision, accuracy, representativeness, completeness, and comparability
- **PARCS**—perimeter acquisition radar (attack) characterization system
- **PARD**—Protect as Restricted Data (**Note**: Use PARD only with the permission of the Alb. Computer Security Site Manager.)
- **Par-Q**—physical activity readiness questionnaire
- PAS—1. primary alerting system 2. protective aircraft shelter (see HAS)
- **PASC**—probability of adversary sequence completion
- PASEM—passive environmental monitor
- PA/SI—preliminary assessment/site investigation
- PASS—1. personnel access security system
 2. personnel administrative support system
- **PASTA**—program for application to stress and thermal analysis (computer code)
- PASTF—Photovoltaic Advanced Systems Test Facility
- PAT—1. progress assessment team 2. plutonium air-transportable (container)

PATRAM—package and transport of radioactive material

PATRICIA—practical algorithm to retrieve information coded in alphanumeric (computer program)

PATS—prototype automatic target screener

PAVE PAWS—precision acquisition vehicle entry phased array warning system

PAVING—a mesh-generation software algorithm

PAWS—portable acoustic wave system

Pb—lead (chemical symbol)

PB—pulse battery

PBE-prompt burst energetics

PBFA—particle-beam fusion accelerator

PBFTU—prebuilt flight test unit

PBGC—Pension Benefits Guaranty Corporation

PBPT—pixel-by-pixel transfer

PBV---post-boost vehicle

PBW—parts by weight

PBX—1. plastic bonded explosive 2. private branch exchange (teletype) 3. public branch exchange

PC—1. printed circuit 2. polymer concrete

- 3. photoconductive 4. port contenders
- 5. personal computer 6. PAL controller
- 7. physician's certificate 8. protective clothing

P-C-plano-convex

PCA—physical configuration audit

PCAP—process capability assurance program

PCB—1. printed circuit board 2. polychlorinated biphenyl 3. personal computer board

PCC—1. Platoon Control Center 2. percent correct classification 3. Policy Coordinating Committee 4. Pressure Certification Committee 5. primary component cooling

PC-CAPRS—personal computer compensation and performance review system

PCCS—ported coaxial cable sensor

PCD—1. program control document2. physician's certificate of disability

PC/DAS—personal computer/document accountability system

PCE—1. PAL control equipment 2. perchloroethylene

P&CE—plant and capital equipment

pcf—pounds per cubic foot; preferred: lb/ft³

PCI—1. permanent complete incapacitation2. pellet-clad interaction

PCL—positive control launch

PCM—1. pulse code modulation **2.** pulse count modulation **3.** pulse colliding mode (locked)

PCMDI—program for climate modeling, diagnosis, and intercomparison

PCN—polyurethane-coated nylon

P-Code—precision code

PCP—product change proposal

PCR—program change request

PCS—1. project (or property) control system2. power conversion system

PCSD—programmable communications security device

PC/SPR—portable computer/seal pattern reader

pct—percent (with a number, the symbol % is preferred: 15%) PCT—1. peak clad temperature 2. process certification team

PCTAP—positive control turnaround point

PCTH—a parallel shockwave physics code

Pd-palladium (chemical symbol)

PD—1. pulse duration 2. pulse doppler 3. potential difference 4. performance decrement 5. program direction

P_D—probability of detection; sometimes written as P₄

P&D—provide and describe

PDA—principal development activity

PDAC—Photovoltaic Design Assistance Center

PDB—1. power distribution box 2. plant damage bin

PDC—1. power drive controller 2. polycrystalline diamond compact

PDE—partial differential equation

PDI—powerdown interrupt

pdl—poundal

PDL—1. Program Design Language 2. Process
Development Laboratory (obsolete. now the
Advanced Manufacturing Processes Laboratory)

PDM—1. pulse duration modulation 2. portable data module 3. power density monitor

PDME—portable data module emulator

PDO-process development order

PDP—1. programmed data processor 2. preferred dentist program

PDR—1. preliminary design review 2. prototype design review

PDS—1. protected distribution system 2. personnel data sheet 3. processing and display system

PDSP-plutonium-dispersed studies program

PDU—process demonstration (or development) unit

PDW-phosphate development works

pe-probable error

PE—1. pyroelectric **2.** polyethylene **3.** professional engineering

P&E—personnel and education

PEARL—personnel expertise and resource listing

PECS—probabilistic evaluation of cladding stress (computers)

PECVP—plasma-enhanced chemical vapor deposition

PED—photoelectric detector

PEEK—polyetheretherketone

PEIS—Programmatic Environment Impact Statement

PEL—1. property on external loan 2. permissible exposure limit (or level)

PEL/MEL—property on external loan/material on external loan

PEM—1. passive environmental monitors **2.** production evaluation missile

PENAIDS—penetration aids

PEO-program executive officer

PEP—performance enrichment program

PEPCI—providing emergency presidential communications interface

PEPER—propellant, explosives, and pyrotechnic evaluation and reapplication

PEPS—photovoltaic electric power system

PERD—professional experience research and development

PERMITS—plant engineering management information and tracking system

PERSEP—Pershing survivability evaluation program

PERT—program evaluation review technique (computers)

PES—plant electrical system

PETC—Pittsburgh Energy Technology Center

PETN—pentaerythritol tetranitrate (explosive)

PEV—pyroelectric voltage (array)

PEVN—polyethylene co-vinyl nitrate

pF—picofarad

PF-1. protection factor 2. power factor

PFA—power FORTRAN accelerator

PFBC—pressurized fluidized-bed combustion

PFC—plasma facing component

PFM—pulse-frequency modulation

PFMAINT—permanent file maintenance (computers)

pfm/cw—pulse frequency modulated/continuous
 wave

PFN—1. pulse-forming network 2. prompt fission neutron

PFRP—process to further reduce pathogen

PFS—protected firing station

PG-process gas

PGA-pin grid array

PGM—precision-guided munition

PGP—professional graphics producer

PGS—perimeter guard station

ph—1. phase **2.** phot (illuminance; use *lux* instead)

pH—potential of hydrogen

PHA—preliminary hazard assessment

PHC—1. preferred health care 2. preliminary hazard classification

Ph.D.—Doctor of Philosophy

PHERMEX—pulsed high-energy radiographic machine-emitting x-rays

PHTS—primary heat transport system

PI—1. principal investigator 2. probability of intercept (see PK) 3. purchasing instruction 4. performance indicator 5. probability of interruption 6. product improvement 7. pressure installer

Pla—Pershing 1a (missile system)

PIA—1. peripheral interface adapter (computers)2. parallel interface adapter

PIAT—public information assistance team

PIBAL—pilot balloon

PIC—1. polymer-impregnated concrete 2. polyethylene-insulated conductor 3. Personnel Information Center 4. plastic-insulated cable 5. PINS information component

PICS—property inventory control system

PID—1. personnel identification device 2. pulse-integrating detector

P&ID—piping and instrument drawing

PIDAS—perimeter intrusion detection and assessment system

PIE—1. post-irradiation examination 2. partners in education

PIF—productivity investment fund

PIFITE—pipe flooding transient (computers)

PIM—pulse interval modulation

PIMS—1. passive infrared motion sensor 2. purchasing information management system

PIN—1. personal identification number 2. P-type, intrinsic N-type

PINEX-pin experiment

PING—pulsed interrogation neutron and gamma (methodology)

PINPAL—physical inventory pallet

PINS—proliferation information network system

PIO—1. programmed input/output 2. peripheral input/output

PIOCS—physical input/output control system (see *LIOCS*)

PIP—1. peripheral interchange program 2. prearm in progress 3. programmable image processor 4. pulsed integrating pendulum
5. public involvement program

PIPER—pulse-intense plasma for exploratory research

PIR—passive infrared

PIV—positive identification verifier

PIWG—public involvement working group

pixel—picture element

PJA—proper job analysis

PJI—proper job instruction

Pk or PK-probability of kill (see PI)

PKE-process knowledge evaluation

pkg—package

Pl—poiseuille (viscosity)

PL-path length

PLBR—prototype large breeder reactor

PLD—programmable logic device

PLMS—pylon launcher missile simulator

PLMSCP—pylon launcher missile simulator computer program

PLRS—position locating and reporting system

PLS-prelaunch survivability

PLUTO—prediction of molten-fuel behavior under transient overpower conditions (computers)

PLYWD—precision low yield weapon design (Air Force)

PLZT—lead lanthanum zirconate titanate

p.m.—post meridiem (after noon)

Pm—promethium (chemical symbol)

PM—1. phase modulation
3. photomultiplier
4. preventive maintenance
5. project manager
6. particulate matter

PMA—primary management area

PMATS—property management assets tracking system

PMCT—PAL management control team (or test)

PMF—1. performance management form 2. probable maximum flood

PMI—1. Project Management Institute 2. probable measurement inaccuracy

PMM—pulse mode multiplex

PMMA—polymethyl methacrylate

PMP—1. parts, materials, and processes2. project (or performance) management plan

PMR—proton magnetic resonance

PMRF—Pacific Missile Range Facility (Navy)

PMS—1. property management system 2. program management system 3. planned maintenance system

PMT—1. Polymicro Technologies 2. process (or performance) management team 3. photomultiplier tube

PMTF—Plasma Materials Test Facility

PMV-PAL material verifier

P/N—part number (sometimes written as PN)

PNA—pulse neutron activation

PNAF—prime nuclear airlift force

PNC—Power (Reactor and) Nuclear (Fuel Development) Corporation

PNE—peaceful nuclear explosion

PNET—Peaceful Nuclear Explosions Treaty

PNL—Pacific Northwest Laboratory

PNP—positive-negative-positive (electronics circuits)

PNS—Parabolized Navier-Stokes (computer code)

Po-polonium (chemical symbol)

PO-purchase order

POC—1. point of contact 2. proof of concept

POCC—Plant Operations Control Center

POC/ET—proof of concept/experimental testbed

POG—project officers group

POINTER—particle orientation interferometer

POLICE—protecting our lives, institutions, communities, and enterprises

POM—program objective memorandum

PONC—price of nonconformance

POP—1. period of performance **2.** plan of operations and practices

POPS—probabilistic evaluation of transient overpower cladding stress (computers)

PORPLUG—porous plug heat-generating blockage (computers)

pos-positive

POS—point of sale

Post-IOC—post-initial operational capability

POTAS—program for technical assistance (to IAEA) safeguards

POTU—Pershing operational test unit

POTW—publicly owned treatment work

pp-1. pages 2. past participle

PP—1. peak to peak 2. pilot production3. Pinellas Plant (formerly GENDD)

PPA—property protection area

ppb—parts per billion

PPBS—planning, programming and budget system

PPC—production process characterization

PPCM—portal perimeter continuous monitoring

P&PD—production and planning directive

PPE—1. personnel protection equipment 2. PAVE PAWS East

PPI—process prove-in

PPL—preferred parts list

P-Plan-programming plan

ppm-parts per million

PPM—pulse position (or pulse phase) modulation

PPMO—Pershing Project Management Office

P&PO—planning and programming order

PPPD—pilot-production program definition

PPPL—Princeton Plasma Physics Laboratory

PPRC—Pulsed-Power Research Center

pps—pulse per second

PPS—1. plant protection system 2. plutonium protection system 3. physical protection system 4. preliminary planning schedule

PPSC—Pulsed Power Safety Committee

PPSE—PAVE PAWS Southeast

PPSW—PAVE PAWS Southwest

ppt—parts per thousand

PPT—performance prototype trough

PP/TMS—pilot production/tool-made sample

PPW—PAVE PAWS West

PQ—product qualification

PQA—1. President's Quality Award 2. preliminary quality assessment

PQMI—process quality management and improvement

PQT—process qualification team (obsolete; now qualification evaluation team)

Pr—praseodymium (chemical symbol)

PR—1. purchase requisition 2. public relations 3. personnel representative

PRA—1. probabilistic risk assessment (or analysis)
2. programmatic risk assessment
3. PAL recode adapter

PRAI—PAL recode adapter interface

PRAM—parameter RAM

PRC—1. programmatic risk classification2. People's Republic of China

PRCF—Plutonium Recycle Critical Facility

PRCR—purchase requisition/change requisition

PRD—1. primary responsible department2. program requirements document

PRDA—program research and development announcement

PREP—production risk evaluation program

PRESS-CM—pit reuse for enhanced safety and security cruise missile

PRF—pulse repetition frequency

PRI—Physical Research Instrumentation, Inc.

pri-primary

PRISM—physically reasonable infrared signature model

PRLS—portable, reconfigurable line sensor

PRO—primary responsible organization

PROM-programmable read-only memory

PROMPT—allows fast computation of a robotic system manipulator's movement to avoid collision

PRONTO—SNL mechanic code (dynamic) (See SANTOS)

PROTEC—programmable ordnance technology

PROVCORPSV—Provisional Corps, Vietnam

PRP—1. pulse repetition period 2. personnel reliability program

PRR—1. pulse repetition rate 2. protective response recommendation

PRRS—penetration resistance rating system

PRS—1. personnel reporting system 2. plasma radiation source

PRSC—1. Purchase Requisition Service Center2. post removal site control

PRT—platinum resistive thermometer

PRVM—peak-reading voltmeter

ps-picosecond

PS-1. product (or primary) specification (drawing number) 2. primary specification

P&S—1. production and systems 2. production and surveillance

PSA—1. Presidential Special Aircraft (Andrews AFB, MD) 2. power switching assembly
3. PAL switch adapter 4. preliminary safety analysis 5. project support agreement

PSAC—Pressure Safety Advisory Committee

PSAR—preliminary safety analysis report

PSC—1. protective sample container 2. Principal Subordinate Command (NATO) 3. pressure safety committee

PSD—prevention of significant deterioration

psf—pounds per square foot; also lb/ft²

psi—pounds per square inch; also lb/in²

PSI—1. personnel security interview 2. Pollutant Standards Index

psia—psi absolute

psig-psi gauge

PSK—phase-shift keying (see FSK)

PSM—program support manager

PSN-1. prototype secure network (computers)2. proper shipping name 3. power systems modernization

PSO—program senior officials

PSP—Pension Security Plan

PSPM—Pressure Safety Practices Manual

PSR—1. program status review 2. perfectly stirred reactor

PSS—1. pressure-sensitive seals 2. perimeter surveillance system 3. probabilistic safety study

PSU—1. program storage unit 2. portable surveillance unit

PSZT—lead tin zirconium titanate

PT—1. production type 2. Pigmy Trilock (connectors) 3. point 4. product tester (as in PT3003) 5. property transfer

P&T—packaging and transporting

PTC—Pentagon Telecommunications Center

PTD—product test data

PTF—phase transfer function

PTFE—polytetrafluorethylene

PTM—1. pulse time modulation (or multiplex)
2. pan/tilt mount

PTP—peak to peak (ratio)

PTR—pressure test record

P&TSC—packaging and transporting safety committee

PTT—Postal Telephone and Telegraph

PTTSA—pre-tiger team self-assessment

PTV—parachute test vehicle

Pu—plutonium (chemical symbol) Pub—publication PUC-PAL unit card PUP—parent unit parts PUPS—pick-up points PUREX—plutonium-uranium reduction extraction PV—photovoltaic(s) PVA—photovoltaic array PVDF—polyvinylidene fluoride PVE—preset/verify/execute PV&KD—pressure volume and constant X displacement PVT—pressure-volume-temperature PVTB—productivity validation testbed pW -- picowatt PW-1. pulse width 2. process water PWA-1. process waste assessment 2. printed wiring assembly PWB—printed wiring board PWC—password control **PWDR**—preliminary weapon development report **PWG**—prioritization working group PWGM—process water gamma monitor PWM—pulse-width modulation PWR—pressurized-water reactor

PWT—parachute wind tunnel

PX—Pantex Plant

PXD—manganin wire pressure transducer Pz-pi ze (pressure) PZT—Pb (lead) zirconate titanate Q **Q**—quality (one of the five corporate values: see I, L, R, and T) QA—quality assurance **QAA**—Quality Assurance Agency (DOE) **QAER**—qualification acceptance equipment release **QAIA**—Quality Assurance Inspection Agency (DOE) **QAIP**—quality assurance inspection procedures **QAM**—Quality Assurance Manual **QAP**—quality assurance procedure (or program) **QAPP**—Quality Assurance Project Plan **QAPPC**—Quality Assurance Program Planning Committee **QAR**—quality action request QASL—Quality Assurance, Sandia (National) Laboratories **QAST**—quality assurance service test **QAT**—quality action team **QATI**—quality assurance test instructions QAVI—quality assurance verification instructions **QBE**—query by example QBF—query by form

QC—1. quality control 2. quality circle

3. quality criteria 4. quality coordinator

QCD—quantum electrodynamics

QCR—quality control/reliability

Q/D—quantity/distance

QDA—1. quartz-based digital accelerometer 2. qualified designated alternate

QED—quantum electrodynamics

QEP—quality engineering project

QER—qualification (or quality) evaluation release

QERD—qualification evaluation research for dismantlement

QEST—quality evaluation systems tester

QET—qualification evaluation team (formerly process qualification team)

QFD—quality function deployment

QIC—quality inspection control

QIP—quality improvement project

QIPM—quality improvement process management (see QPMI)

QIT—quality improvement team

QLFT—qualitative fit test

QLORD—quantum-limited optical resonance detector

Qm-quartermaster

QMC—quantum Monte Carlo (numerical simulation method)

QML—qualified manufacturers' list

QMS—quality management system

QNFT—quantitative fit test

QNOW—quality news on weapons

QP—1. quartz phenolic 2. quality plan 3. quick pay

QPL—qualified parts list

QPMI—quality process management and improvement (AT&T training: see QIPM)

QRA—1. quick reaction alert 2. qualitative risk analysis

QS-1. qualification sample 2. quality system

QSC—quality steering council

QSG—quality support group

QSI—Quantum Systems, Inc. (Albuquerque)

QSP—questionnaire for sensitive positions

qt-quart

QTE—qualification testing evaluation

qtr-quarter

qty-quantity

quad-quadrant

qual—qualitative

QUEST-quality-enhancement strategies

QV—quality verification

QUIC—quasi-instantaneous control

QWL—quality of work life

R

r-radius

R—1. roentgen (unit of absorbed radiation dose exposure; see rad)
2. resistance
3. respect (one of the five corporate values; see I, L, Q, and T)
4. radiant (energy hazard)

°R—degrees Rankine (e.g., 99°R), used in the Rankine temperature scale

R1, R2—Range 1, Range 2

R2—rewards and recognition

R_A—Rockwell, "A" scale hardness

R_R-Rockwell, "B" scale hardness

RA—1. relay assembly 2. radiation area 3. risk assessment

RAAS—remedial action assessment system

RAC—1. Research Advisory Committee 2. radioactive cargo 3. response action contractor

RACS—remote access system

RACT—reasonable available control technology

rad—1. radian (plane angle 2. unit of absorbed radiation dose liberating 100 ergs of energy per gram or 10-2J/kg (supersedes the roentgen)

RAD—1. radiation absorbed dose 2. random-access device 3. radioactive

radar—radio detection and ranging (originally an acronym but now accepted as a word)

RADCON-1. radiation contamination 2. radiation control

RADEC—radiation detection capability

RADEX—radiation exposure

RADIAC—1. radiation detection, indication, and computation

RADINT—radar intelligence

RADM—Rear Admiral

RadPro—radiation protection

rad/s—radians per second (preferred over rad/sec)

RADWASTE-radioactive (and mixed) waste

RAE—Royal Aircraft Establishment

RAeS—Royal Aeronautical Society

RAF-1. Royal Air Force 2. resistance after fire

RAISE—Rural American Indian Science Education

RAL—recommended allowance list

RAM—1. random-access memory 2. read-and-modify memory (digital controllers) 3. radio-active material 4. RADEC analysis and monitor 5. rocket-assisted mode 6. radar-absorbing (or absorption) material 7. radiation area monitor 8. reliability, availability, and maintainability

RAMS—1. remote atmospheric monitoring system 2. radiation area monitor system

RAN—restricted access network

RAP—1. restricted access program 2. remedial action program

RAPADS—rapid (deployment) access delay system

RAPID—1. radiation pattern identification2. retrofit-assisted parachute in-flight delivery

RAPRENOX—rapid reduction of nitrogen oxides

RAS—1. roof antenna system 2. reactor analysis and safety 3. routine analytical services

RASER—radio-frequency amplification by stimulated emission of radiation

RASLE—radiating and absorbing shock layer equilibrium

RASSPVDN—random sphere (model of) simultaneous particle and vapor deposition

RATLER—robotic all-terrain lunar exploration rover

RATT—radioteletype

RB—1. reentry body 2. rule based

RBA—1. reentry body assembly 2. radiological buffer area

RCB—retrieval containment building

RBE—relative biological effectiveness (of radiation)

RBFTU-rebuild flight test unit

RC-1. radiochemical 2. reinforcing capability

R-C-resistance capacitance

RCA—1. root cause analysis 2. Radio Corporation of America

RCAF—Royal Canadian Air Force

RCD-release circuits disconnect

R&CG—Resource and Coordination Group

RCI—receipt for classified information

RCIC—reactor core isolation cooling

RCM—reliability centered maintenance

RCMS—removal cost management system

RCP—reactor cooling pump

RCRA—Resource Conservation and Recovery Act (1976)

RCS—1. reactor control system 2. radar cross section 3. reactor coolant system

RCSC—radiological and criticality safety committee

RCSI—reactor coolant system integrity

RCSM-radar cross-section measurement

RCU—reference control unit

RCW—recirculated cooling water

rd—rutherford (a unit of the decay rate of radioactive material)

RD—1. restricted data 2. remedial design

R&D—research and development

RDA—Research and Development Associates (DNA subcontractor)

RD&A—research, development, and application

R to D to A—research to development to application

RDD—radiation dispersal device

RD&D—research, development, and demonstration

RDDT&E—research, development, demonstration, testing, and evaluation

RDE—radiation-detection equipment

RD&E—research, development, and engineering

RDF-radio direction finder

RDJTF—Rapid Development Joint Task Force

RD/RA—remedial design and remedial action

RDRF—receive data register full (computers)

RDS—records depository system

RDT—reactor development and technology

RD&T—research, development, and testing

RDT&E—research, development, testing, and evaluation

RDU-1. remote data unit 2. RADEC data unit

RDX—abbreviation for the explosive cyclomite

RE-1. rare-earth 2. real

R&E—research and engineering

REA-retard airburst

REAC/TS—Radiation Emergency Assistance Center/Training Site (Oak Ridge, TN) READ—renewable energy for African development

REASURE—reporting evaluation auditing system for unsatisfactory reports

REB—relativistic electron beam

REBA—relativistic electron-beam accelerator

RECAP—review and command assessment of projects

RECCE—reconnaissance

REDAC—remote detection and control

REDAR—radiation and environmental data acquisition and recording

REDCOM—readiness command

redox-reduction oxidation

REDS—reactor electronic distribution system

REECo—Reynolds Electrical and Engineering Co. (subsidiary of EG&G, Inc.)

ref-reference

ref sym—reference symbol (also RS)

REG-1. range extender with gain 2. retard groundburst

REGAL—report generator algorithm reporting

REHR—reactor heat removal

rem—roentgen equivalent man (or mammal) (use *sv* for sievert instead)

REM—1. recovery exercise module 2. recognition memory (computers) 3. radiation exposure model 4. remedial (planning)

REMBASS—remote battlefield sensor system

rep—roentgen equivalent physical (a unit of ionizing radiation)

RER—relative encryption range

RES—remote equipment shelter

RESC—reactor subcriticality

RESL—Radiological and Environmental Science Laboratory

REST—retrofit evaluation system test

Ret—retired

RETA-R. E. Timm & Associates

RET-ER—retirement engineering release

RETRVIR—remote telerobotic vehicle for intelligent remediation

rev-revolution

rev/s—revolutions per second; rps is preferred

RF—1. radio frequency 2. response force3. Rocky Flats 4. research foundation

RFA—1. request for analysis 2. RCRA facility assessment

RFAO—Rocky Flats Area Office (DOE)

RFCS—request for change of scope

RFD—1. rotating flexible decelerator

2. reduced forward deployment

3. radio frequency detection

RFF—response force facility

RFFS—request for facilities support

RFI—1. radio-frequency interference 2. request for information 3. RCRA facility investigation4. RCRA field investigation

RF/MW—radio-frequency and microwave (frequency)

RFP—1. request for proposal **2.** Rocky Flats Plant (EG&G)

RFQ—request for quotation

RFS—radar fire signal

RFT—1. response force time 2. respirator fit test (datasheet)

RG-Regulatory Guide

RGB-red, green, blue

RGC—Rio Grande Chapter (Local Chapter of the Project Management Institute)

RGH-rare-gas halogen

RGX-reverse geometry x-ray

RGZ-recommended ground zero

Rh—rhodium (chemical symbol)

RH-1. relative humidity 2. remote handled

RHALE—robust hydrodynamics arbitrary Lagrangian Eulerian

RHCP-right hand circularly polarized

RHEPP—repetitive high-energy pulsed power

RHIC—radiation-hardened integrated circuit

RHM-roentgen per hour at one meter

RHO—Rockwell-Hanford Operations

RH-TRU—remote handled transuranic waste

RI—1. radio interference 2. Rockwell International 3. responsible individual (see RP)4. remedial investigation

RIA—1. Robotics Industries Association 2, range insensitive axis 3, regulatory impact analysis

RIB—reference information base

RIC—1. resistance inductance capacitance
2. Rare-Earth Information Center

RID—requirements identification document

RI/FS—remedial investigation/feasibility study

RIG-Risk-based Inspection Guide

RIM—relative importance measure

RIMS—roll-stabilized inertial measurement system

RIMU—reentry inertial measurement unit

RIOM Manual—RACON Installation, Operation, and Maintenance Manual

RIP—1. Retirement Income Plan2. rapid interface phototyping

RIPE—robot independent programming environment

RIPL—robot independent programming language

RISC—reduced instruction set computer

RIT—record (or receipt) of internal transfer

RIU—radar interface unit

RL—radioluminescent

RLCU-remote launch control unit

RLGA—ring laser gyro assembly

RLPG-regenerative liquid propellant gun

RMA—return material authorization

RMAP—Risk Management Action Plan

RMF—remote monitoring facility

RMIEP—risk methodology integration and evaluation program

RML—1. remote maintenance line
2. reactive multi-layers

RMMA—radioactive material management area

RMP—Risk Management Program

rms or RMS-root-mean-square

RMS—rotating mass storage

RMSEL—Robotics Manufacturing, Science, and Engineering Laboratory

RMT—remote maintenance terminal

RMWS-rail mobile weapon system

RMWTS—radioactive and mixed waste tracking system

Rn—radon (chemical symbol)

RN-regency net

RND—rules need date

RNLN—Royal Netherlands Navy

rΩc—reciprocal ohm centimeter (electrical conductivity)

rΩm—reciprocal ohm meter

RO—1. retrofit order 2. reactor operator3. remains open

ROA—record of assembly

ROADS—range optimal advanced-development system

ROBAT—robotics obstacle breaching assault tank

ROBCOM—robot communication

ROC—1. required operation characteristics2. required operation capability

ROCAPS—remote operation of cask penetration system

ROCOMP—radio- or computer-operated mobile platform

ROD—1. record of decision 2. record of disassembly 3. report of discrepancy

RODAN—robotic optical disk access node

ROI—1. return on investment 2. record of origination

ROK—Republic of Korea

ROM—1. read-only memory (computers)
2. rough order of magnitude

ROMC—read-only memory control

ROO—record of origination

RORSAT—radar ocean-reconnaissance satellite

ROSES—remote oscilloscope sealed environment system

ROTL-remote office test line

ROV—1. remotely operated vehicle 2. report of violation

ROVER—remotely operated vehicle for emplacement and reconnaissance

RP-1. radiation protection 2. rendezvous point

3. Reynold part (followed by the part number)

4. respiratory protection 5. responsible party

RPC—remote procedure cells

RPDL—Rapid Prototype Development Laboratory

RPG—rocket-propelled grenade

Rph—roentgens per hour

RPI—Rensselear Polytechnic Institute

RPL—reactor-pumper laser

rpm—revolutions (or rate) per minute (see rps)

RPM—radial power monitor

R&PM—Regulations and Procedures Manual (DOE)

RPP—respiratory protection program

RPPA—respiratory protection program administrator

RPQ—respiratory protection questionnaire

rps or rev/s—revolutions per second (rps is
 preferred)

RPS—reactor protection system

RPU—receiver/processor unit

RPV—1. remotely piloted vehicle 2. reactor pressure vessel

RQ—reportable quantities

R&QA—reliability and quality assurance

RQP—responsibilities, qualifications, and performance (ES&H)

R/R—recapture/recovery

RRA—Radiation Research Associates, Inc.

RRC—Regional Response Center

RRDA—Resource Recovery and Disposition
Account

RRI-RCRA remedial investigation

RRMT—reactor and reactor material technology

RRPC—radiological respiratory protection coordinator

RRPS-robotic reconnaissance point sensor

RRR—reduced residual radiation

RRRV—rate of rise of recovery voltage

RRSAS—robotic radiation survey and analysis system

RRT—regional response team

RRV—robotics reconnaissance vehicle

RS—1. reentry system 2. reference symbol (also abbreviated: ref. sym.) 3. reprocess specification

r/s—revolutions per second (rps is preferred)

RSA—1. reimbursable (or reimbursement) spending account **2.** Radiation Safety Associates, Inc.

RSAD—requirements and self-assessment database

RSAS—regional seismic array system

RSCFG—revolutionary security concepts focus group

RSCRC—regional superfund community relations coordinator

RSE—1. receiver shield enclosure 2. removal site evaluation

RSI—1. reactor safety information 2. repetitive stress injury

RSL—Remote Sensing Laboratory (Las Vegas, NV)

RSLP—reentry systems launch program

RSNF—Royal Saudi Naval Forces

RSO—reported significant observation

RSP—1. render-safe procedure 2. rapid solidification processing

RSPA—Research and Special Programs
Administration

RSS—1. reactor safety study 2. remote security station 3. relay station status 4. remote subsystem 5. ready safe switch

RSSMAP—Reactor Safety Study Methodology Application Program

RSSPS—remote sensor system for physical security

RSTA—reconnaissance, surveillance, and target acquisition

RSTAKA—reconnaissance, surveillance, target acquisition, kill, and assessment

RSTN—regional seismic test network

RSV—robotic security vehicle

RSVP—1. Remote Sensing and Verification
Program 2. Retired Senior Volunteer Program

rt or RT-1. room temperature 2. rise time

RT—1. room temperature 2. rise time 3. real time

RTAF—read-time aperture flux

RTB—1. reentry thermal battery 2. robotic testbed

RTDM—remote transponder data modules

RTDP—Robotics Technology Development Program (DOE)

RTECS—registry of toxic effects of chemical substances

RTG—radioisotope thermoelectric generator

RTL—resistor-transistor logic (computers)

RTO—rail transportation office

RTP—1. restructured test program 2. rapid thermal process

RTR—routine technical report

RTS—1. return from subroutine 2. removal tracking system

RTV—room-temperature vulcanizing (or vulcanized)

RUG by ball—70 carbon atom fullerene

RUPL-radar-updated path length

RV—1. reimbursement voucher 2. reentry vehicle 3. reactor vessel

RVA—radar (or range), velocity, and attenuation

RVB-retractable vehicle barriers

RVC-reactor volume control

RW-river water

RWA—reaction wheel assembly

R wave—Rayleigh wave (seismology)

RWE—reactor works engineer

RWIS-raw water intake structure

RWL—reactor water level

RWMC—Radioactive Waste Management Complex

RwoH—reliability without hermeticity

RWP—radiation work permit

RWQCB—regional water quality control board

RX—reactors

Ry—rydberg (see kayser)

RZ—radiation zone

S

s-second

S—1. survivable 2. sulphur (chemical symbol)3. siemens 4. secret

S²—1. safeguards and security 2. survivability and security

S³—safety, security, and survivability

SA—1. Sandia (National Laboratories) apparatus
2. storage activities 3. staging area 4. safety
assessment 5. standard assembly 6. self-assessment 7. SNL apparatus

S&A—sampling and analysis

SAALC—San Antonio Air Logistics Center

SAAT—Sandia accessibility advocacy team

SABRE—Sandia accelerator and beam research experiment

SAC—1. Sandia auxiliary closure 2. Strategic Air Command (The Air Combat Command has now combined SAC and TAC into one command.) 3. Support Agency Coordinator

SACA—Support Agency Cooperative Agreement

SACCS—SAC Command Control System

SACEUR—Supreme Allied Commander, Europe (NATO)

SACLANT—Supreme Allied Commander, Atlantic (NATO)

SACNET—secure automatic communication network (DOE)

SACR—SAC regulation

SACROC—Strategic Air Command required operational characteristics

SACS—safeguards alarm and communications system

SADARM-search-and-destroy armament

SADCAT—structural analysis of 3-D core assembly transient (computers)

SADM—small (or special) atomic demolition munition

SAE—Society of Automotive Engineers

saf-safed

SAF-1. security automated fabrication 2. safe, arm, and fuze

SAFE—1. safeguards automated facility evaluation 2. Sandia award for excellence

SAFER—security and force-protection enhancement resources

SAFF-safe, arm, fuze, and fire

SAFM—safe monitor

SAGE—semi-automated ground environment

SAHP—solar-augmented heat pump

SAI—Science Applications, Inc. (La Jolla, CA)

SAIC—Science Applications International Corporation

SAIR—safe and in-range

SAK-a one-dimensional kinetics computer code

SAL—Safeguards Analytical Laboratory (Seibersdorf, Austria)

SALAD—1. slide-actuated, laser-armed detonator
2. seismic acoustic low-altitude aircraft detector

SALC—systematic assessment of licensee performance

SALE—safeguards analytical laboratory evaluation

SALOGS—Sandia logic simulation

SALSA—SNL application code designed to simulate complex fluid flows on large-scale parallel computers

SALSIM—SALOGS simulation

SALT—Strategic Arms Limitation Talks

SAM—1. sensor access manager 2. surface-to-air missile 3. scanning Auger microscope

SAMA—Scientific Apparatus Makers Association

SAMP—Sickness Absence Management Plan

SAMPE—Society for the Advancement of Material and Process Engineering

SAMS—Sandia/Air (Force) materials study

SAMSO—Space and Missile Systems Organization

SAMSON—semiautonomous mobile system for ordnance neutralization

SAMT—State-of-the-art medium terminal

SAN—San Francisco Operations Office (DOE)

SANDAC—1. Sandia data acquisition computer **2.** Sandia airborne computer **3.** Sandia aerospace computer

SAND DEVIL—Sandia digitally encoded video junk

SANDUS—Sandia digital underground system

SANTOS—SNL mechanic code (static) (see PRONTO)

SAO—Sandia Area Office (DOE)

SAP—1. simulation administration program
2. special access program

SAR—1. safety analysis report 2. synthetic aperture radar 3. supplied air respirator 4. search and rescue

SARA—Superfund Amendment and Reauthorization Act

SARF—special airburst radar fuze

SARL—Sandia Aerosol Research Laboratory

SAROS—synthetic aperture radar for open skies

SARP—1. safety analysis report for packaging 2. severe accident risk program

SAS—1. safety analysis system (computers)
2. statistical analysis system 3. sealed (or secure) authentication system 4. secondary alarm station 5. Senate Armed Services (Committee) 6. synthetic aperture sonar 7. semi-annual soils 8. special analytical service 9. safety assurance system

SASA—severe accident sequence analysis

SASL—a stress computer code

SASP—special ammunition supply point

SASS—1. special aircraft stores shop
2. se-quential access storage system

SAT—1. security alert team 2. supervised autonomous testbed 3. staff assistant technical 4. satellite 5. Scholastic Aptitude Test

SATC—seismic/acoustic target classifier

SATCAP—satellite capability

SATCOM—satellite communications

SATIN—SAC AUTODIN teletype interface

SATTLIF—Sandia Transportable Triggered Lightning Instrumentation Facility

SAV—semi-annual vegetation

SAVI—systematic analysis of vulnerability to intrusion

SAW—1. surface acoustic wave 2. squad automatic weapon

SAWE—Sandia water-entry

SAXS—small-angle x-ray scattering

Sb—1. stibium (antimony) (chemical symbol)
2. stilb (optics)

SB-1. small business 2. surface burst

SBA—Small Business Administration

SBC—single-board computer

SBEL—Structural Behavior Engineering Laboratory (Phoenix, AZ)

SBIR—small business innovative resource

SBIRCCD—Schottky barrier infrared chargecoupled device (computers)

SBLOCA—small break LOCA

SBO-station blackout

SBX—single-board extension

S²C—safety, security, and control

Sc—scandium (chemical symbol)

- SC-1. shape component 2. separable component
- SCA—Service Contract Act
- SCALEBOARD—NATO designation for Soviet SS-12 missile
- SCAP—Superfund Consolidated Accomplishments Plan
- SCAQ—significant conditions adverse to quality
- SCARB—Sandia Corrective Action Review Board
- SCARS—1. status, control, alerting, and reporting system (NATO)2. system control and receiving station
- SCB—1. semiconductor bridge 2. Sandia Classification Bulletin 3. sliding crash beam
- SCBA—self-contained breathing apparatus
- SCC—1. stress corrosion cracking 2. SECOM Control Center 3. Security Control (or Communications) Center 4. Switching Control Center 5. Security Command Center (SNL)
 6. Sandia Compensation Council 7. Sandia Computer Committee
- SCCF—sprayed chopped-carbon fiber
- SCIF—sensitive compartmented information facilities
- SCCM-standard cubic centimeters per minute
- SCCS—1. safeguards central control system
 2. safeguards control and communications system
 3. source code control system
 4. single-code coded switch
- SCCT—survivable command center technology
- SCD—source control drawing
- SCDC—signal certification device coder
- SCDR—Sandia Corporation Development Report (one of the designations for early SAND reports; now obsolete)

- **scf**—standard cubic feet
- scfh—standard cubic feet per hour
- SCI—sensitive compartmented information
- **SCIAD**—science advisor (SNL)
- SCILS—sensitive countries information logging system
- SCIS—1. security configuration information system 2. Service Center Integrated (or Information) System 3. survivable communications integration system 4. Sensitive Country Information Logging System (DOE)
- SCISEARCH—Science Citation Index Search
- SCM—1. sensor capabilities modeling 2. small-core memory 3. statistical crack mechanics
- SC-M—Sandia Corporation Miscellaneous (a designation for SAND reports; now obsolete)
- SCN—Sandia Computing Newsletter
- SCNMTAA—South Central New Mexico Technicians Affiliate Association
- **SCORE**—Service Corp of Retired Executives
- SCORES—scenario-oriented recurring evaluation system
- **SCP—1.** Squadron Command Post **2.** shelter control panel **3.** secure conferencing project
- **SCPR**—Sandia Corporation progress report (one of the designations for early SAND reports; now obsolete)
- SCPV—safeguards coordination and performance verification
- SCR—1. silicon-controlled rectifier 2. Sandia contracting representative (buyer) 3. Semiconductor Research Corporation
- SCRR—Sandia Corporation research report (one of the designations for early SAND reports; now obsolete)

SCS—1. secure container system 2. supplementary cooling system 3. Sandia Contracting Specialist

SCSC—Small Computer Support Center

SCSD—secure codes storage device

SCSI—small computer system interface

SCSP—single-crystal silicon photovoltaics

SCSR—Sandia Corporation Systems Report (one of the designations for early SAND reports; now obsolete)

SCT—stockpile confidence test

SCTI—sodium components test installation

SCTIS—single-channel transponder injection system

SCTM—Sandia Corporation Technical Memorandum (obsolete; now SNL Internal Memorandum)

SCUBA—self-contained underwater breathing apparatus

SCW-service clarified water

SCWD—Sandia Corporation Weapon Development (one of the designations for early SNL SAND reports; now obsolete)

SCWMT—SNL chemical waste management team

SCWO—supercritical water oxidation

SD—1. self-destruct 2. standard deviation 3. source data 4. safe drinking (water)

SDA—1. source data acquisition (computers)2. system design alternatives

SDACS—stored data acquisition system

SDB—small disadvantaged business

SDC-1. Strategic Defense Command 2. shutdown cooling

SDCSIC—semi-domesticated critter scat identification chart (for hantavirus work)

SDD—1. safety determination documentation2. system design description (or document)

SDDB-stockpile dismantlement database

SDDM—Secretary of Defense Decision Memorandum

SDF—Strategic Defense Facility

SDHX—shutdown heat exchange

SDI—1. strategic defense initiative 2. selective dissemination of information 3. steel door (or deck) institute

SDL—Spectra Diode Laboratories

SDM—scanning detection mode

SDMS—shared document management system

SDP—subseabed disposal program

SDR—1. systems design review 2. Sandia delegated representative 3. spin dependent recombination 4. significant defect report (obsolete; now SFIR)

SDS—shutdown sequence

SDT—1. shock-detonation transition **2.** signal data translator

SDU-slave display unit

SDW—special development warhead

SDWA—Safe Drinking Water Act

SE-standard error

SEA—1. Statement of Employee Account **2.** Science and Engineering Associates, Inc.

SEAB—Secretary of Energy Advisory Board

SEAD—safeguards engineering and analysis database

SEAL—sea-air-land (observation)

SEAM—spin ejector adapter module

SEAMIST—Science and Engineering Associates membrane instrumentation and sampling technique

SEARA—stockpile evaluation and reliability assessment

SEASAT—SEAL (observation) satellite

SEAV—security enhancement to Area V (Sandia/NM)

SEB—Source Evaluation Board

SEBAS—scattering of electrons by atomic systems (computers)

sec-1. secure 2. secant

SEC-1. Securities and Exchange Commission

2. Sandia ES&H Council (obsolete; now SQLC)

3. secondary electron conduction

SECAS—security assurance

SECDEC—single error correcting, double error correcting

SECDEF or SecDef—Secretary of Defense

SECOM—security communications

SECSY—spin-echo correlated spectroscopy

SED—1. stockpile entry date (or data) 2. skin erythema dose (radiation) 3. statistical experimental design

SEDEC—Semiconductor Equipment Development Center

SEDO—specified external distribution only (obsolete; use a current unclassified release statement)

SEEK-TALK—jam-resistant radio (USAF)

SEES—security exercise evaluation simulation (or system)

SEFOR—southeast fast oxide reactor

SEI—space exploration initiative

SEIS—Supplemental Environmental Impact Statement

SEL—1. special equipment list 2. sound exposure level

SEM—1. scanning electron microscopy 2. sensor and environment monitor 3. Society of Experimental Mechanics 4. science, engineering, and mathematics

SEMATECH—semiconductor manufacturing technology

SEMS—seafloor earthquake measurement system

SEMY—summer employment (for) minority youth

SEN—Secretary of Energy Notice

SENLEX—sensor layout expert (system)

SENS—suspect equipment notification system

SEP—1. spherical error of probability 2. selective employment package 3. systematic evaluation program 4. surface electrical potential 5. strike enable plug

SEPE—sources of ES&H personnel expense

SEPUP—Science Education for Public Understanding Program

SEPW-strategic earth-penetrator weapon

seq-sequence

SEQR-stockpile evaluation qualification release

SER—1. safety evaluation report **2.** stockpile emergency report

SERA—superfund emergency response action

SERC—State Emergency Response Commission

SERF—Sandia Engineering Reactor Facility

SERI—Solar Energy Research Institute

SERIP—SIGINT/EW Readiness Improvement Program

SERP—Sandia Employees Recreation Program

SERS—surface-enhanced Raman spectroscopy

SES—1. Standards Engineers Society 2. system external specifications 3. stationary energy storage

SESC—Sandia Explosives Safety Committee

SETAF—Southern European Task Force (Army)

SETEC—Semiconductor Equipment Technology Center

SETS—set equation transformation system (computers)

SEU-single-event upset

SEV—stockpile emergency verification

SE/VMS—security-enhanced virtual memory system

SF—1. security force 2. special forces 3. superfund 4. signi-ficant finding

SFA—1. security fault analysis 2. systemic factors analysis

SFD—system field demonstration

SFE—1. Sandia-furnished equipment 2. slim loop ferroelectric

SFEE—small forces engagement exercises

SFFT—superconducting flux-flow transistor

SFI—significant finding investigation

SFIR—significant finding investigative report

SFIS—striped-filter image sensor

SFK—special-function keyboard

SFMT—San Francisco-Moscow teleport (an electronic bulletin board)

SFPE—Society of Fire Protection Engineers

SFRD—secret, formerly restricted data

SFT—stockpile flight test

SG-1. superconducting generation 2. silicon gate

SGA—Sandia Golf Association

SGC—Space General Corporation

SGEMP—system-generated electromagnetic pulse

SGM—spark-gap modulation

SGML—standard generalized markup language (international standard for text markup)

SGT—1. secure ground transport 2. safeguards transport

SGTS—standby gas treatment system

SH-1. shear horizontal 2. sleeve housing

SHAC—solar heating and cooling

SHAD—Sandia helicopter acoustic detector

SHAPE—Supreme Headquarters Allied Powers, Europe

SHEAC—Safety, Health, and Environment Appraisal Committee

SHED—solar heat-exchange drive

SHEE—safe high-energy explosive

SHF or shf—super-high frequency

SH&F—Safety, Health, and Facilities

SHORAN—short-range (radio)

SHPO—State Historic Preservation Office

SHRP-Strategic Human Resources Plan

SHT-seal head tank

Si-silicon (chemical symbol)

SI-1. Système International d'Unites (International System of Units) 2. security inspector

3. Special Intelligence 4. storage inspection

5. site inspection 6. Salt Institute

SIA—Semiconductor Industry Association (San Jose, CA)

SIAM—self-initiated attack missile (also known as "Little David")

SIC-standard industrial classification

SICADS—site-independent configurable alarm display system

SICBM—small intercontinental ballistic missile

SICBM/HML—SICBM/hard mobile launcher

SICS—safety injection control system

SID—site interface device

SIDAS—sodium iodide detector (response) analysis software

SIDSS—Sandia irradiator for dried sewage solids

SIED—sophisticated improvised explosive device

SIER—special instruction engineering release

SIEX—steady-state in-pile behavior of mixedoxide fuels (computers)

SIG-1. special-interest group 2. selenide-isotope generator

SIGDISC—special-interest group (for optical) disks

SIGINT/EW—Signals Intelligence/Early Warning

Sigma—a weapon data access designator

SIK—system independent kernel

SIL—speech interference level

SIMD—single instruction, multiple data

SIMOX—separation by implementation of oxygen

SIMPLE—subassembly interchange mixing program for flow effects (computers)

SIMS—1. Sandia intruder motion simulator

2. standards information management system

3. Sandia issues management system

sin-sine

sinh—hyperbolic sine

SIN—site information network

SINCGARS—single-channel ground and aircraft radio system

SIOP—single integrated operational plan

SIP—1. stockpile improvement program (or plan)2. shock-induced polarization 3. state implementation plan

SIPE—soldier integrated protective ensemble

SIPI—Southwest Indian Polytechnic Institute

SIR—1. Sandia (National Laboratories) interior robot 2. semi-annual inventory report

SIRAS—Sandia independent review and appraisal system

SIREN—search intercept retrieve expulsion nuclear

SIS—1. safeguards information system

2. superconductivity information system

3. system internal specifications **4.** shaft instrumentation system

SIT—1. sonar impingement test 2. silicon intensified target 3. system interface test

SITAN—Sandia inertial terrain-aided navigation

SITB—system integration testbed

SITE—superfund innovative technology evaluation

SITV—Stanford Instructional Television

SIVC—systematize, internationalize, vitalize, and commercialize

SJP-standard job procedure

SJSSA—Sandia jump start self-assessment

SKEDS—Sandia/Kirtland emergency database system

SL—1. strong-link (adjective); strong link (noun)
2. special linear

SLA—1. Sandia Laboratories, Albuquerque (obsolete; changed to SNL/New Mexico) 2. sequential launch adapter 3. sea, land, and air

SLAC—Stanford Linear Accelerator Center

SLAP—saboted light-armor penetrator (or penetration)

SLAR—side-looking airborne radar

SLATEC—Sandia/LANL AFWL Technical Exchange Committee

SLATS—solar linear array thermal system

SLAVE—Sandia Laboratories Augmented VAX Editor

SLB-shallow land burial

SLBM—submarine-launched ballistic missile

SLC—subscriber looper carrier

SLCM-sea-launched cruise missile

SLCS—standby liquid control system

SLEDS—Sandia Laboratories engineering drawing standards

SLFCU—Sandia Laboratories Federal Credit Union

SLFE-slim loop ferroelectric

SLI—Sandia Laboratories Instruction (obsolete; now Sandia Laboratories Policy)

SLIC—Sandia Laboratories Information Center

SLIFER—shorted location indication from electrical resonance

SLIM-Sandia/LANL interface mockup

SLIME—sublethal interdicting materials experiment

SLIS—Sandia Livermore information system

SLL—Sandia Laboratories, Livermore (obsolete; now SNL/California)

SLM—1. standard liters per meter 2. subscriber loop multiplex 3. sound level meter

SLP—Sandia (National) Laboratories Policy (formerly SLI)

SLS—1. strained-layer superlattice 2. strained-layer semiconductor 3. strong-link switch4. selective laser sintering

SLSC-small linear-shaped charge

SLT-stockpile laboratory test

SLUMPY—fuel slumping (computers)

SLWPG—Senior-Level Weapon Protection Group

SLYP—solving last year's problems

Sm—samarium (chemical symbol)

SM—1. status messages 2. standard missile (Navy)

S&M—surveillance and maintenance

SMAC—shipment mobility accountability collection

SMART—1. sequential modular architecture for robotics and telecommunication 2. safety, maintenance, and repair team

SMARTS—Sandia modular advanced reconfigurable telemetry system

SMARTWELD—computerized system for rapidresponse manufacturing

SMAS—switched maintenance access system

SMC—1. system monitor and control 2. Sandia Management Council (obsolete; use SQLC)

SMCL—secondary maximum contaminant level

SMCM—sea mine countermeasures

SMCRA—Surface Mine Control and Reclamation Act (1977)

SMCS—surveillance monitoring and control subsystem

SMCTF—Solar Materials and Components Test Facility

SMD-surface mount device

SMDC—supervisors' management development course

SME—1. Society of Manufacturing Engineers2. subject matter expert

SMERF—Smoke Emission Reduction Facility

SMES—superconducting magnetic energy storage

SMFAS—simplified modular frame assignment system

SMG—submachine guns

SMI—1. salary merit increase 2. static memory interface (microprocessors)

SMLM—Soviet Military Liaison Mission

SMMP—Special Microelectronics Master's Program

SMO—Sample Management Office

SMOA—Superfund Memorandum of Agreement

SMOL—strained-metal overlayers

SMOOPI—shadow moiré out-of-plane interferometric (damage detector)

SMP—1. software management program 2. site management plan 3. special master's program

SMPC—1. speciality metals processing consortium 2. switch-mode power converters

SMRSF—special moment resisting space frame

SMS—site management system

SMTP—simple mail transfer protocol

SMTS—senior member of technical staff

SMU—source measure unit

SMUG-Sandia Macintosh Users' Group

sn—sensor

S/N or SN—1. signal to noise 2. stock number 3. serial number

SNA—systems network architecture

SNAFU—situation normal, all fouled up

SNAP—1. systems for nuclear auxiliary power 2. safeguards network analysis procedure

SNEC—Subgroup on Nuclear Export Coordination

SNF—short-range nuclear force

SNIPER—subnanosecond impulse radiator

SNL—When referring to a specific Sandia location, use the formal (Sandia National Laboratories), informal (Sandia), or acronym (SNL) name as appropriate, with the state name following, separated by a slash. Examples:
Sandia National Laboratories/New Mexico is the site of PBFA II.
The Combustion Research Facility at Sandia/California develops

and applies new research tools to problems in combustion research. <u>Note</u>: For internal audiences and others fa-miliar with Sandia, the short forms "Sandia/NM" and "Sandia/CA" may be used. Facilities may also be referred to as "the California laboratory" and the "New Mexico laboratory." Sandia Corporation is the official corporate name. Use it in legal and official documents, contracts, or leases.

SNLESC—SNL Electrical Safety Committee

SNM—1. strategic nuclear material 2. special nuclear material

SNMERC—Southeastern New Mexico Education Resource Center

SNOBOL—string oriented symbolic language (A computer language developed by Bell Labs.)

SNORT—supersonic naval ordnance research track

SNOS—1. silicon nitrate oxide semiconductor2. silicon nitride oxide silicon

SNR—1. sodium-cooled nuclear reactor **2.** signal-to-noise ratio

SNS—Sandia notification system

SNTP—space nuclear thermal propulsion (or program)

SNU-solar neutrino unit

SNUPPS—standardized nuclear unit power plant system

SO-special order

SOA—systems ordering agreement

SOAR—Space Operations and Applications Research

SOC—1. synthetic organic compound **2.** security overpack container **3.** security operations computer

SOCOM—special operations command

SODAS—Sandia optical disk archival system

SOF—Special Operations Forces

SOFPARS—Special Operations Forces planning and rehearsal system

SOH-state of health

SOI-silicon-on-insulator

sol-soluble

sol-gel-solution gelation

SO/LIC—special operations/low intensity conflict

soln—solution

SOMNET—Sandia (Labs) open mail network

sonar—sound navigation and ranging

SOP—1. Standard Operating Procedure (ES&H)2. Safe Operating Procedure (ES&H)3. standard operating power

SOR—1. specific operational requirement **2**. service order request

SORV—stuck open relief valve

SOS—1. silicon-on-sapphire (memory) 2. self-optimized sector (a code)

SOTAS—standoff target acquisition system

SOTF—security operations training facility

SOUTHCOM—Southern Command

SOW—1. statement of work 2. standoff weapon

sp—1. special 2. specific

SP—1. sparkplug **2.** standard procedure

S&P—synthesis and processing

sp act—specific activity

SPADAT—space detection and tracking

SPADIS—Space Defense information system

SPADOC—Space Defense Operations Center

SPC—1. statistical process control 2. switching power combiner 3. Sandia Program Council (obsolete; use SQLC)

SPCC—spill prevention countermeasure and contingency (plan)

SPCDS—small permanent communications and display segment

SPD—summary plan description

SPDS—safety performance data system

SPDT—single pole, double throw (electrical switch)

spec-specification

SPETsNAZ—American Translation: Soviet Special Forces

SPFE—special projects flight experiment

SPG—single-point ground

sp gr-specific gravity

sp ht—specific heat

SPI—security profile inspection (computers)

SPIC—serial/parallel/interrupt controller (card)

SPICE—a program for electronic circuit analysis

SPIE—Society of Photo-Optical Instrumentation Engineers

SPIR—short perimeter intrusion radar

SPIRITS—spectral and in-band radiometric imaging of targets and scenes

SPL—1. sound pressure level 2. semiconductor packaging laboratory 3. self-propelled launcher
4. spare parts list 5. silent-power limited

SPLTS—special private line telephone system

SPMS—1. safety performance measurement system 2. strategic planning and management system

SPMT—small project management team

SPN—stop-production notice

SPO—1. security police officer **2.** Special Projects Office (Navy)

SPOT—Satellite pour l'Observation de la Terre

SPP-standard practice procedure

SPR—1. Sandia Pulsed Reactor **2.** strategic petroleum reserve

SPRINT—sub-program (manager) integration team

sps or SPS—samples per second

SPS—1. sun-present sensor 2. safety precedence sequence 3. simplified processing station4. sample protection system

SPSE—savings plan for salaried employees

SPST—single pole, single throw (electrical switch)

SPT—signal processor and timer

SPUR—space power unit reactor

SPV-small projectile vault

sp vol—specific volume

sq—square (use of the superscript 2 is preferred)

SQA—software quality assurance

SQC—1. Sandia Quality Council (obsolete; use SQLC) **2.** statistical quality control

SQF—subjective quality factor

SQIT-Sandia quality improvement team

SQL—structured query language

- **SQLC**—Sandia Quality Leadership Council (replaces SEC, SMC, and SQC)
- SQL/DS—structured query language/data system
- SQPC—Secretarial Quality Process Council
- SQSC-Sandia Quality Steering Council
- SQW—single quantum well
- **SQWFET**—strained quantum well, field-effect transistor
- sr-steradian (solid angle)
- Sr—strontium (chemical symbol)
- SR—1. supplemental requirements 2. software requirements 3. slant range 4. suppressed radiation 5. Steel Room 6. Savannah River (Operations Office/DOE)
- S&R—shipping and receiving
- S/R-safety/relief
- SRA—1. Sandia recognition award 2. special recognition award
- **SRAM—1.** short-range attack missile **2.** static random-access memory
- SRAM-T—short-range attack missile, tactical
- SRB-solid-fuel rocket booster
- SRBM—short-range ballistic missile
- SRC—1. sample recovery canister 2. space response cell 3. Semiconductor Research Corporation 4. Semiconductor Research Council 5. Safety Review Committee
- **SRCSC**—Sandia Radiological and Criticality Safety Committee
- SRD—1. secret restricted data 2. system requirements document
- SRE—subsystem research experiment

- SREMP—source-region electromagnetic pulse
- SRF—Secure Reserve Force
- SRI—Stanford Research Institute
- SRIC—Semiconductor Research Integration Center
- SRID—standards/requirements identification document
- SRIR—semirigid inspection resin
- SRIS—short-range thermal sight
- SRL—Savannah River Laboratory
- SRO—1. Savannah River Operations (DOE)2. senior reactor operator
- SRP—Savannah River Plant
- SRS—1. Savannah River Site 2. secure recode system
- SRSC—Sandia reactor safety committee
- **SRT—1.** special response team **2.** security response team
- SR/TR—strategic reconnaissance/tactical reconnaissance
- SRV—1. surrogate research vehicle 2. small reentry vehicle 3. safety relief valve
- SRVS—Sandia reimbursement and vouchering system
- SS—1. stainless steel 2. special (or system) specification (a drawing prefix) 3. US designator for Soviet surface-to-surface missile
 4. sole source 5. stockpile support 6. security/safety (interface) 7. shift supervisor
- **S&S**—safeguards and security (obsolete; use S²)
- SSA—1. senior scientific adviser 2. single stronglink assembly 3. source selection authority
- SSAC—Source Selection Advisory Council

- SSB—single sideband
- **SSBN**—Navy designator for its ballistic missile launching nuclear submarine
- SSC-1. Soldier Support Center (Army)
 - 2. structures, systems, and components
 - **3.** scientific support contractor **4.** superfund state contract
- SSCC—Site Security Control Center
- SSCR—1. system software change request2. senior Sandia contracting representative
- SSD—1. steady-state distribution 2. solid-state storage device 3. safe secure dismantlement
- SSDA—synchronous serial data adapter
- SSDC—1. Site Security Defense Center 2. Safety System Department Center (DOE)
- SSEB—Source Selection Evaluation Board
- sSF-standard saybolt fural
- SSF—1. Service Storage Facility 2. saybolt seconds fural
- SSFC—Self-Service Finance Center
- SSFI—1. safety system functional inspection2. Scaffolding, Shoring, and Forming Institute
- S²SG—Survivability and Security Steering (and Working) Group
- SSI—1. ship's system instrumentation 2. small-scale integrated
- SSID—supplemental structural inspection document
- SSL—1. secondary standards laboratories2. Sandia Standards Laboratory
- SSM—1. secure storage modules 2. single sideband modulation 3. solid-state memory 4. surface-to-surface missile

- SSN—1. shape-stable nosetip 2. social security number 3. secure supercomputing networking (or network) (SNL)
- SSNM—strategic special nuclear material
- SSO—source selection officer
- **SSOMI**—safety system outage modification inspection
- **SSP—1.** Stockpile Sampling Program 2. Savings and Security Plan 3. Schedule Strike Plan
- SSPO—Strategic Systems Project Office
- SSPS—solid state protection system
- SSR—1. solid-state relays 2. safe-secure railcar3. stockpile surveillance reliability
- SSRS—STRATCOM secure recode system
- SSS—1. safe shutdown system 2. supplementary safety system 3. Systems Science and Software (Company)
- SSSA—Soil Science Society of America
- SSSP—safeguards and security site plan
- SST—1. safe-secure trailer (or transport)2. single-shell tank
- SSTB-Salton Sea Test Base
- SSTS—space surveillance and tracking system
- SSTTP—safeguards system test target program (missile launching)
- sSu-standard saybolt, universal
- SSU—1. saybolt seconds, universal 2. security system upgrade
- SSV—simplified storage vault
- St—stoke (use m³s kinematic viscosity)
- **ST—1.** space (and missile) technology **2.** Sandia traveler **3.** superconducting transmission

S&T—systems and technology

STA—1. senior technical associate 2. shift technical advisor

STAC—stemming anchor closure

STACS—strategic and theater (tactical) advanced communications study

STADAN—space tracking and data acquisition network

stalo-stable local oscillator

STANAG—Standardization Agreement (NATO)

STAR—1. shock thermodynamics applied research 2. shock technology applied research

STARBASE—security tracking and response base

STARFIX—satellite timing and ranging fix

STARLOC-Sandia target location computer

STARS—strategic target system

START—Strategic Arms Reduction Treaty

STAS—safe-to-arm signal

stat-—Prefix indicating an electrical unit in electrostatic centimeter-gram-second system of units; SI recommends discontinuing the term.

STC—1. Society for Technical Communication2. seismic target classifier

STCS—short-term compliance statement

std-standard

STE—system test equipment

STED-solar turboelectric drive

STEL—short-term exposure level

STEM—scanning transmission electron microscope

STEP—1. solar total energy project 2. stockpile transition enabling program 3. standard for the exchange of product (model data) 4. standardization enabling project (or program)

STEPS—Sandia text editing and photosetting system

STF—1. safety test facility 2. systems test facility

STI—1. scientific and technical information 2. surveillance test interval

ST&I—security theme and implementation

STL—Simulation Technology Laboratory

STM—1. secure transport module 2. scanning, tunneling microscope 3. stirling thermal motors 4. scientifically tailored materials stack tritium monitor

STMBMS—simultaneous thermogravimetric modulated beam mass spectrometry

STMPO—solar ten-megawatt project office

S&TNF—strategic and theater nuclear forces

STNG—sealed tube neutron generator

STOC—Special Technical Operations Center

STOL—short takeoff or landing

STOLS—surface towed ordnance locator system

STOP—safety training observation program

STOVL—short takeoff or vertical landing

STP—1. system test plan 2. standard temperature and pressure 3. special technologies program 4. software test plan 5. surety technology program

STPP—standard truncated pyramid pillar

STR-software trouble report

STRAC—Strategic Army Corps

- STRATCOM—1. Strategic Communications
 2. Strategic Command
- STRAW—structural analysis of subassembly wrappers (computers)
- STREP—System Technology Reentry Experiments Program (Army)
- STRESS—structural engineering system solver (computers)
- STRICOM—Strike Command
- STS—1. stockpile-to-target sequence 2. standard threshold shift 3. safeguards transportation system
- STSC—secure transportation and storage container
- STTF—Solar Thermal Test Facility (now the National Solar Thermal Test Facility)
- STTR-small-business technology transfer
- STU—1. scientific test unit 2. special test unit 3. seismic test unit 4. secure telephone unit
- STX—sensor transmitter
- SUCI—sensitive use control information
- SUM—Software User's Manual
- **SUMMER**—Sandia unmanned mobile-machine experimentation range
- SUNMOS—Sandia/University of New Mexico operations system
- SUPA—submicron particle analyzer
- **SUPER**—science understanding promotes environmental responsibility
- SURF—system utilization reaction factor
- SURP—Sandia university research program
- **SUWCO**—Sewer Use and Wastewater Control Ordnance

- sv—sievert (J kg⁻¹; formerly rem)
- SV—1. space vehicle 2. secure voice 3. standoff vulnerability 4. shear vertical
- SVC—special verification commission
- SVCN—secure video conferencing network
- **SVDI**—Sandia virtual device interface
- SVIA—Specialty Vehicle Institute of America
- SVIS—Sandia Voice Information System
- SVL—Secure Voice Link
- **SVLS**—submarine vertical launch system
- **SVMS**—Sandia voice messaging system
- SVN—secure voice network
- SVT—system verification test
- SW-1. shortwave 2. shallow water
- **SWAP**—stress wave analysis program
- SWAPS—secretarial, writing, and professional standards
- SWAT—1. special weapons and tactics 2. sum of weighted accelerations technique 3. solid waste assessment test
- SWDA—Solid Waste Disposal Act
- **SWE**—Society of Women Engineers
- **SWEC**—Stone and Webster Engineering Corporation
- **SWERVE**—Sandia winged energetic reentry vehicle
- **SWF—1.** Strategic Weapon Facility **2.** stresswave factor
- SWFLANT—Strategic Weapon Facility, Atlantic
- **SWFPAC**—Strategic Weapon Facility, Pacific

SWG-seabed working group

SWGA-Sandia Women's Golf Association

SWHAS—1. Sandia workplace hazards awareness system 2. Sandia workplace hazards awareness signs

SWIFTII—a computer code

SWIM—special weapon inventory management

SWIRC—Southwest Information and Research Center

SWITS—solid waste information tracking system

SWMC—SNL Waste Management Council

SWMCM—shallow water mine countermeasures

SWMU—solid waste management unit

SWOE—Smart Weapons Operability Enhancement

SWOG—Special Weapons Overflight Guide

SWOP—1. Southwest Organizing Project **2.** special weapons ordnance publication

SWORD—Sandia wafer-level software for reliable devices

SWOT—strengths, weaknesses, opportunities, and threats

SWP—safe work permit

SWR-standing wave ratio

SWRD—system for weapon rapid deployment

SWS—1. salt water system 2. service water system

SW/RS—stop work/restart

SWSA—solid waste storage area

SWTP—secretarial work training program

SX—space experiments

SXR—special exception release

SXRP—stellar x-ray polarimeter

SXR—special exception release

SYNF—synthetic (gaseous and liquid) fuels

SYNROC—synthetic rock

SYSCON—systems control

SYSIN—system input (computers)

SYSOP-systems operator

 \mathbf{T}

t—1. triton (the nucleus of tritium) 2. temperaure in Celsius; sometimes written as T

T—tera- (a prefix indicating 10¹²)

T—1. tesla (magnetic flux density)
2. temperature
3. transmission
4. teamwork (one of the five corporate values; see I, L, Q, and R)
5. tritium (chemical symbol)
6. Trident (as in Trident II)
7. thermal
8. temporary

T_a —antenna noise temperature

Ta—tantalum (chemical symbol)

TA-1. transverse acoustic 2. test apparatus

3. technical associate 4. travel authorization

5, technical area 6, test authorization

TABM—tactical antiballistic missile system

TAC—1. Tactical Air Command (The AirCombat Command has now combined the former TAC and the former SAC into one command.)

2. toxic air contaminant

TACAMO—take charge and move out

TACC—Tactical Air Control Center

TACCAuto—Tactical Air Command and Control (USAF automated system)

TACFIRE—US Army automated tactical system for artillery fire direction

TACM—total automatic control module

TACOM—Tank Automotive Command (Army)

TACP—Tactical Air Control Parties

TADP—Technology Assessment Development Plan

TADS—technician automated diagnostic system

TAFIG—Tactical Forces interoperability group

TAFIIS—Tactical Air Force integrated information system

TAG-technical assistance grant

TAGS—text and graphics support

TALC—tactical laser communications

TALM—temperature alarm monitor

TALO—time after liftoff

TAMMBA—thermoanalyzer modulated molecular beam apparatus

tan—tangent

tanh—hyerbolic tangent

TAOS—technology for autonomous operational survivability

TAP—1. unit of impulse (1 dyne-s/cm²)

- 2. Training Accreditation Program (DOE)
- **3.** technical assistance program **4.** toxic air pollutant

TAPS—1. tunnel and pipe system 2. tunnel and pipe seal

TARC—transportation accident resistant container

TARE—telemetry automatic reduction equipment

TARS—terrain-aided reckoning system

TASM—1. Tomahawk antiship missile 2. tactical air-to-surface missile

TASS—tactical automated security system

TAT—technical assistance team

TATB—triaminotrinitrobenzene

TAWC—Tactical Air War Center

Tb—terbium (chemical symbol)

T&B—top and bottom

TBC—1. testbed concentrator (related to solar)
2. to be considered 3. testbed container

TBD—to be determined

TBE—total binding energy

TBI—1. text-based instruction 2. through bulkhead igniter

Tc-technetium (chemical symbol)

TC—1. thermocouple; test component 2. tools component 3. training and certification

T&C—terms and conditions

TCA-trichloroacetic acid

TCATS—target cueing and tracking system

TCC—Technical Control Center

TCCC—Transeaver Central Control Center

TCD-trouble call desk

TCE—trichloroethylene

TCF—1. Technical Control Facility 2. trillion cubic feet

TCG—1. track control group 2. technical coordinating group 3. topical classification guide

TCI—technology commercialization initiative

TCLP—toxicity characteristic leaching procedure

TCMC—Technical Communications Management Council

TCNT-transpiration-cooled nosetip

TCO—technology commercialization office

TCPC—technical communications products group

TCP/IP—transmission control protocol/interest protocol

TCRC—Technical Classification Review Committee

TCREP—Technical Counters and Response Experimental Program

TCU—tag controller unit

TD—1. theoretical density (sometimes written asTd) 2. timer driver 3. technology development4. time delay

TDBI-test during burn-in

TDD—target device detection

TDDL—time division data link

TDF—1. turbulent diffusion flame **2.** Target Development Facility

TDI—1. target data inventory 2. time-delayed integration 3. toluene di-isocyanate

TDLR—training device letter requirement

TDM—time division multiplexing

TDMA—time division multiple access

TDP—1. targets development program
2. technical drawing package

TDR—training device requirement

TDRE—transmit data register empty

TDS—1. transporter detection system 2. tamper detection system 3. Textron Defense Systems (Wilmington, MA) 4. test definition subsystem

TDTC—Test, Development, and Training Center

TDY—temporary duty

Te-tellurium (chemical symbol)

TE—1. transverse electric 2. thermoelectric 3. terminal equipment

TEARS—tank effect augmentation by remote subsystems

TEC-1. total electron content 2. total estimated cost

TECTU—Tomahawk electrical compatibility test unit

TEDCG—test equipment design coordination group

TEDE—total effective dose equivalent

TEF—Test and Evaluation Facility

TEG-test and evaluation group

TEL—transporter-erector launcher

TELER—telecommunications requirements

TELNET—telecommunications network

TEM—1. transverse electromagnetic (wave)
2. transmission electron microscopy

temp—temperature

TEQ—test equipment qualification

TERA—terminal effects research and analysis

TERCOM—terrain contour matching; sometimes written TERCONTM

TERSE—terminal reporting system

TES—1. thermal energy storage 2. technical enforcement services

TESS—tactical engagement simulation system

TESSTA—thermal energy storage for solar thermal applications

TEVES—thermal enhanced (soil) vapor extraction system

TEX-Telex

TFD—tactical fusion division

TFDD—thermal/flash protective device

TFE-trifluoroethylene

TFM—thin-film membrane

TFN—the proper acronym for thick (film) network is TKN

TFP—traffic facility practices

TFPD—thermal/flash protective device

TFS—terminal fix system

TFSF—thin film secure facility

TFT-thin-film transistor

TFTR—Tokamak Fusion Test Reactor (Princeton's Plasma Physics Laboratory)

TFW—Tactical Fighter Wing

TGA—thermogravimetric analysis

TGES—task group on electrical safety

TGP—two-gimbal platform

Th—thorium (chemical symbol)

TH—telemetry head

THB-1. test head battery 2. test head B

THERP—technique for human error rate prediction

THIS—trouble-handling information system

thk-thick

thm—therm (British unit of temperature)

THM—1. terminal homing munitions 2. tri-halomethane

3D—three dimensional

THREX—threshold experiment

THT—transient heat transfer

TI-1. Texas Instruments 2. transport index

TIA—Telecommunications Industries Association

TIADS—Tonopah Integrated Air Defense System

TIC—Technical Information Center (Oak Ridge); TIC is now obsolete; see *OSTI*

TID—1. traveling ionospheric disturbances
2. tamper-indicating device

TIDBITS—ES&H training information database

TIDS—technical information distribution system

TIE—1. technical institute equivalency (program)
2. technical information exchange

TIE-In—technology information environment for industry

TIG—tungsten inert gas

TIM—1. target insertion mechanism 2. technical interchange meeting

TIMS—technical information monitoring system

TIO—technical integration office

TIP—1. transaction interface package 2. Tokamak improvement program 3. thulium isotope power

TIPS—total improvement process system (visitor access)

TIQLR—teamwork, integrity, quality, leadership, and respect TIR—total indicated runout

TIRC—technical information resource consultant

TIS-1. technical information specialist

2. technical information service

3. Telephone Inter-cept System

TIU—1. transducer interface unit 2. tag interface unit

TK-temperature Kelvin (see K)

TKN—thick film network

TL—transmission level

T²L—transistor-transistor logic; use TTL instead

TLA—time loss analysis

TLAM—Tomahawk land-attack missile

TLAM-C—Tomahawk land-attack missile, conventional

TLAM-N—Tomahawk land-attack missile, nuclear

TLC—total life concept

TLCC—thin line connectivity capability

TLD—1. thermoluminescence dosimeter 2. threshold lung damage

TLDE—theater launch detection experiment

TLE—target-location error

TLI—treaty-limited item

TLTA—two-loop test apparatus

TLV-threshold limit value

TLX—short for TELEX

TM—1. tone modulation 2. transverse magnetic3. technology manager 4. telemetry 5. technical manual 6. thematic mapper

T&M—time and material

TMAB—tetramethylammonium borohydride

TMAC—Toxic Materials Advisory Committee

TMAP—1. teleoperated mobile anti-armor platform 2. tactical mult-ipurpose automated platform

TMD—theater missile defense

TMDE—test, measurement, and diagnostic equipment

TMI—Three-Mile Island

TMP—technology maturation program

TMS—1. The Metals Society 2. tool-made sample (QA)

TMSS—telemanaged (or teleoperated) mobile security station (pronounced "Thomas")

 T_N —temperature (noise)

TN-1. thermonuclear 2. test monitor

TNA—thermoneutron activation

TNAZ-trinitroazetidine

TNCHP—trizacycloheptune

TNF—tactical nuclear forces; theater nuclear forces

TNFC³S—Theater Nuclear Forces Command, Control, and Communication System

TNNW—Treaty on Nonproliferation of Nuclear Weapons

TNSA—technical nuclear surety (or safety) analysis

TNT—trinitrotoluene (explosive)

TO—1. transverse optic 2. technical order (sometimes written as T.O.)

TOA—time of arrival

TOC-1. Test Operation Center 2. Technical Operations Center 3. total organic carbon (or compound)

TOF—time of flight

TOFF—Transient Overpower Fuel-Element Failure (computers)

TOFMS—time of flight mass-spectrometry (or spectrometer)

TOG—technical oversight group

tol-tolerance

TOMS—total ozone mapping spectrometer

TOO—targets of opportunity

TOP—1. technical operating plan 2. transient overpower (accident) 3. total obscuring power (measure of smoke screening) 4. traffic operating procedure

TOPS—teacher opportunities to promote science

TOS—1. tactical operations system 2. transportation options study

TOSI—technical on-site inspection

TOSM—transceiver on-site multiplexer

TOUGH—transport of unsaturated groundwater and heat

TOV-teleoperated vehicle

TOW-time of work

TP—technical publication

TPA-1. terephthalic acid 2. tri-party agreement 3. terminal processing assembly

TPC-1. transaction processing center 2. temporary procedure change

TPD—temperature programmed desorption

TPICK—Telecommunications Plan for the Improving of Communications in Korea

TPL—transient protection limit

TPQ—threshold planning quantity

TPR—terrain profile recorder (also known as airborne profile recorder, or APR)

TPS—1. thermal power system **2.** tamper-protected sensors **3.** transactions per second

TPU—text processing utility

TPV—thermophotovoltaic

TPX—1. tokamak physics experiment
2. polymethylpentene

TQG—tactical quiet generator

TQM-total quality management

tr-trace

TR-trainer

TRA—1. test reactor area 2. teacher research associate

TRAC—transient reactor analysis code

TRACE—tamper-resistant authenticated camera enclosure

TRADE—training resources and data exchange

TRADOC—Training and Doctrine Command (US Army)

TRAM—transient multiplexer

TRANSWRAP—transient sodium water reaction analysis program (computers)

TRAPP—transient response to applied pressure pulses (computers)

TRC—total recordable case

TREAT—Transient Reactor Test Facility

TRED—technology for regional-based economic development

TREE—transient radiation effects in electronics

TREX—thermally reactive elastic-plastic explosive

TRI—1. Tech Reps, Inc. 2. toxic release inventory

TrIP-transient ignition phenomena

TRISP—time-resolved infrared spectral photography

TRITAC—Tri-Service Joint Tactical Communications Office

TRL—Tritium Research Laboratory

TRL/SRC—Tritium Research Laboratory/Safety Review Committee

TROKA—Third Republic of Korea Army

TRP—technology reinvestment project

TRS—1. text recognition system 2. telemetry receiving station

TRSS—tactical remote sensor system

TRU-1. transuranic 2. total resource utilization

TRUEX-transuranic extraction

TRUPACT—transuranic package transporter

TRV-tactical robotic vehicle

TRW—Thompson, Ramo, Wooldridge (Corporation)

TS—1. technical support 2. target strength

3. top secret 4. technical specification

5. toxic substance

TSA—1. technical staff associate 2. technical safety appraisal

TSAM—tri-service standoff attack missile

TSAR—terminal special-access request

TSC-1. touch screen control 2. triple standard concertina 3. Technology Support Center

TSCA—Toxic Substances Control Act

TSCC—Technical Support Coordinating
Committee

TSCM—1. technical security countermeasure 2. temperature scram circuit monitor

TSD—1. treatment, storage, and disposal2. tech-nical system design 3. technology for safe driving

TSDF-treatment, storage, and disposal facility

TSE-test support equipment

TSER—transportation safety evaluation report

TSG—telephone security group

TSLS—trajectory stronglink switch

TSM-Transportation Safety Manual

TSN-terminal switching network

TSO—time-sharing option

TSP—1. traffic service position 2. total suspended particulates 3. transportation/storage program 4. testbed setup program

TSPI—time-space position information

TSR—1. thermostructural response 2. technical safety requirement

TSRS—tactical secure recode system

TSS—1. transportation security system 2. total suspended solid

TSSG—1. trajectory-sensing signal generator 2. transportation study steering group

TSSP—trajectory sensing signal processor

TSSPE—trajectory sensing signal processor enable

TSTS-Tomahawk system test set

TT-Tiger Team

TTA—1. tube-transformer assemblies 2. Tiger Team assessment

TTAP-Tiger Team Action Plan

TTB-1. tank testbed 2. target technology base

TTBT—Threshold Test Ban Treaty

TTC—Technology Transfer Center

TTF—thermal treatment facility

TTGM—Tiger Team Guidance Manual

TTI—technology transfer initiative

TTIM-TACOM thermal image model

TTL-transistor-to-transistor logic

TTLD—Teflon thermoluminescent dosimeter

TTM—two-tone modulation

TTO-total toxic organics

TTR-1. Tonopah Test Range 2. time to repair

TTS—1. time-transfer system 2. temporary threshold shift

TTV-test target vehicle

TTY—1. teletype 2. teletypewriter

Tu—tuballov

TU-ART—twin universal asynchronous receiver/transmitter

TUDE—terminal user data entry

TUL-time until launch

TUQS—trajectory unique signal

TVA—Tennessee Valley Authority

TVATP—tactical vulnerability assessment training program

TVC—Technology Ventures Corporation

TVI—television interference

TVL-tenth value larger

Tw or **Twad**—Twaddell (a unit of specific gravity on the Twaddell scale)

TW-terawatt (trillion watts)

TWA—time-weighted average

TWAA—tactical warning attack assessment

TWCS-Tomahawk Weapon Control System

TWF—transuranic waste facility

TWNP-tape-wound nylon phenolic

2D—two dimensional

TWO-DFFT—two-dimensional fast Fourier transform (see DFFT)

TWP—1. transuranic waste program 2. tactical warfare program

TWPG—Trident Warhead Project Group (US/UK)

TWS-Tomahawk Weapon System

TWT-1. traveling-wave tube 2. transonic wind tunnel

TWTSF—transuranic waste treament and storage facility

TWX—teletypewriter exchange (service)

U

u—atomic mass unit (unified)

μA--microamps)

UART—universal asynchronous receiver/transmitter

UAV—unmanned aerial vehicle

U-AVLIS—uranium-atomic vapor laser isotope separation

UBC—Uniform Building Code) **UBITRON**—undulating beam interaction electron (tube) UC-use control U&C—usual and customary UCAI—unclassified controlled access information **UCBT**—uncollimated Compton backscattering tomography **UCC**—use control characteristics UCCATS—urban combat computer-assisted training system UCC/ND—Union Carbide Corporation/Nuclear Division ucg or UCG—underground coal gasification UCL—upper control limit UCNI—unclassified controlled nuclear information UCP-1. Universal Construction Package 2. Unified Command Plan UCPOG—use-control project officer's group UCS-1. unclassified computer software 2. Union of Concerned Scientists **UDETSS**—underwater deterrent security system UDL—use denial lock UDT—underwater demolition team UEL—upper explosive limit **UESC**—United Energy Services Corporation UF-1. Upward Feedback 2. University of Florida **UFAS**—Uniform Federal Accessibility Standards

UFC-Uniform Fire Code

UFFCS-ultrasonics, ferroelectrics, and frequency control society UFL—upper flammable limit UFSAR—updated final safety analysis report UG-underground **UGS**—unattended ground sensor UGSW-unattended ground sensor workstation **UGT**—underground test UGV—unmanned ground vehicle UHDL—unified hardware description language (computers) **UHF** or **uhf**—ultra-high frequency UHI—upper-head injection UHLCADS—ultra-high-level container airdrop system UHV-ultra-high voltage U/I—urban-industrial UIC-1. user identification code 2. underground injection control UIS—user interface simulation **UJT**—unijunction transistor **UK**—United Kingdom **UKAEA**—United Kingdom Atomic Energy Authority **UL**—Underwriter's Laboratories. Inc. ULF—ultra-low frequency ULSI—ultra-large-scale integrated

UMS-1. ultrasonic motion sensor 2. universal

UNAAF—Unified Action Armed Forces

maintenance standards

UNC—1. unified national coarse (holes)2. United Nuclear Corporation

UNCAI—unclassified noncontrolled access information

UNICCAP—universal cable circuit analysis program (computers)

UNIX—a computer operating system developed at Bell Labs

UNSCOM—United Nations Special Commission

UMT—uranium mill tailings

UMTCA—Uranium Mill Tailings Control Act (1978)

UNO—United Nations Organization

UO2—uranium dioxide

UOP—Formerly Universal Oil Products; now a joint venture company of Union Carbide and Allied Signal

UOR—unusual occurrence report

UPC—universal PAL controller

UPEC—University Programs Education Committee

UPH—underground pumped hydro

UPI—1. United Press International **2.** Unidynamics/Phoenix, Inc.

UPS—uninterruptible power supply

UPT—university part-time

UQS—unique signal

UR—unsatisfactory report

URA—uniformly redundant array

URS—UHF ranging system

US—1. United States (often written as U.S.)2. ultrasonic

U&S—unified and specified

USA—1. United States Army 2. United States of America

USAAG—US Army artillery group

USABC—US Advanced Battery Consortium

USAD—US Agency for International Development

USADC—US Army Defense Command

USAF—United States Air Force

USAFAD—US Army Field Artillery Detachment

USAFE—US Air Force, Europe

USAKA—US Army Kwajalein Atoll

USAREUR—US Army, Europe

USART—universal synchronous/asynchronous receiver/transmitter

USARV—US Army in Vietnam

USASDC—US Army Strategic Defense Command

USASI—USA Standards Institute (replaces ASA)

USASOC—US Army Special Operations Command

USATHAMA—US Army Toxic and Hazardous Materials (Center)

USCAR-US Council for Automotive Research

USCG—US Coast Guard

USCINCEUR—US Commander-in-Chief, Europe (NATO)

USCINCPAC—US Commander-in-Chief, Pacific Command

USCINCSO—US Commander-in-Chief, Southern Command (NATO)

USCOMDOMREP—US Commander, Dominican Republic

USDA—US Department of Agriculture; unique signal device assembly

USDOE—US Department of Energy

USDRE—Under Secretary of Defense for Research and Engineering

USDSD—ultrasonic seal data storage device

USDW—underground sources of drinking water

USECRE—US Export Council for Renewable Energy

USEUCOM—US European Command

USFK—US Forces in Korea

USFWS-US Fish and Wildlife Service

USG-1. US Government **2.** unique signal generator (or generation)

USGCRP—US Global Change Research Program

USGS—US Geological Survey

USH—universal sleeve housing

USIC—US Industry Coalition

USJVP—Utility Scale Joint-Venture Project

USMB—US Metric Board

USMC—US Marine Corps

USN—US Navy

USNC/RM—US National Committee for Rock Mechanics

USOP—unique signal override plug

USQ—unreviewed safety question

USRADS—ultrasonic ranging and data system

USRD-ultrasonic seal reading head

USS—United States ship

USSAN—US Security Affairs NATO

USSIOP—US single integrated operational plan

USSR—Union of the Soviet Socialist Republics (see NIS and FSU)

UST-1. unique signal train 2. underground storage tank

UT—ultrasonic testing

UTC—universal time coordinated

UTMC—United Technologies Microelectronics Center

UTRC-United Technologies Research Center

UU—ultimate user

UUT—Unit Under Test

UV—1. ultraviolet 2. undervoltage

UVASER—ultraviolet amplification by stimulated emission of radiation

UV-LIDAR—ultraviolet light detection and ranging

UV-Vis-ultraviolet visible

UWB-ultra-wide band

UXO—unexploded ordnance

 \mathbf{V}

v—1. vibration 2. velocity

V—1. vanadium (chemical symbol) 2. volt

VA—1. voltampere 2. vulnerability assessment

vac-vacuum

VAC—1. Vacuum Atmospheric Company;(Hawthorne, CA) 2. volts, alternating current (see VDC) 3. vacuum

VACS-voice activated control system

VAFB—Vandenberg Air Force Base

VAIS—visually artificial intelligent surveillance

VAM—vibration and acoustic monitoring

VAMS—visits and assignments management system

VANA—vector automatic network analysis (or analyzer)

VAr—volt-ampere reactive

VAR—1. visual-aural range 2. vacuum-arcremelt

VAT-vertical access tower

VAWT—vertical-axis wind turbine

VAX-virtual address extension

VB/TWSS—vehicle barrier/taut-wire sensor system

VC-verification chamber

VCC—voice conferencing console

VCE—vinyl copolymer ethylene

VCM—voluntary corrective measures

VCO—1. voltage-controlled oscillator 2. virtual cathode oscillator

VCP—1. volunteer contribution plan 2. verifiable control procedures 3. verifiable completion process 4. vitrified clay pipe

VCR-videocassette recorder

VCSEL—vertical cavity surface-emitting laser

V&CT—verification and control technology

VDC—1. volts, direct current (see VAC) 2. volts direct current

VDFG—variable diode function generator

VDI—1. video disk interactive (computers)2. virtual device interface

VDT—video display terminal

Ve—exhaust velocity (expressed in m/s)

VE-visoelastic (materials)

VEC—variable explosive chamber

VENUS—computer code superseding MARS code for disassembly analysis

vf or VF-video frequency

VFA—vibration fly around

VFO-variable frequency oscillator

VFP—variance frequency processor

VGA—1. video graphics array 2. video graphics adapter 3. voluntary group accident (insurance)

VH—velocity (or validation) head

V&H—vulnerability and hardening

VHAP —volatile hazardous air pollutant

VHDL—VHSIC hardware description language

VHF or vhf—very high frequency

VHSIC—very high speed integrated circuit

VHT-very high temperature

VIA—volunteers in action

VIEWS—virtual interactive environment work space

VIP—1. visual information projection 2. vital issue process 3. video imaging projectile4. very important person

VISAR—velocity interferometer system for any reflector

VISDTA—video imaging system for detection, tracking, and assessment

VISTA—very intelligent surveillance and target acquisition

VITA—volunteers in technical assistance

Viterbi-redundancy for error checking

VIU-VME I/F unit

viz.—videlicet; namely

VKA—volatile keying assembly

VLBI—very low baseline interferometry

vlf or VLF-very low frequency

VLF—very low flow

VL&H—vulnerability, lethality, and hardening

VLOS—vertical line of sight

VLR—very long range

VLS—vertical launching system

VLSI—very large scale integration

VM—1. velocity modulation 2. voltmeter 3. virtual machine

V/m-volts per meter

VMD-video motion detection

VME-versa-module, Europe

VMS—virtual memory system

VMSEL—Virtual Manufacturing and Synthetic Environment Laboratory (SNL)

VNIIA—Translation: All-Russian Scientific Research Institute of Automatics

VNIR-very near infrared

VNIEF—(also known as Arzamas-16) Translation: Russian nuclear weapons laboratory (can be considered a combination of Los Alamos National Laboratory and Sandia National Laboratories)

VNITF—Translation: Russian Federal Nuclear Center

v/o-volume/percent

VOC—volatile organic compounds

V/OD-voice/open data

vol-volume

VOM-volt-ohm milliammeter

VOR-VHF omni range

VP—1. video processor 2. vault processor 3. vice president 4. vapor pressure

V_n—pinchoff voltage

VPIC—Russian acronym for Soviet Military Industrial Commission

VR—virtual reality

VRCI—Variable Resistive Components Institute

VRE—vibrating reed electrometer

VRF—Visual Recording Facility

VRIS—vault remote inventory system

VRLA—valve regulated lead-acid (batteries)

VRTWG—verification research technology working group

vs.--versus

VS—very survivable

VSB—vestigial sideband

VSI—visual site inspection

VSIS-Vault Safety and Inventory System

VSM-vestigial sideband modulation

V-SMOW—Vienna standard mean ocean water

VSS-video storage system

VSTOL—vertical/short takeoff and landing (aircraft)

VSU-1. voice synthesizer unit 2. video surveillance unit

VSW-very shallow water

VSWR—voltage standing-wave ratio

VT-vacuum tube

VTE-virtual test environment

VTERM—virtual terminal

VTL—voluntary term life

VTOL—vertical takeoff and landing

VTPP—Verification Test Plan and Procedures

VTR-1. video tape recorder 2. vault-type room

VTS—vertical tube storage

VTVM—vacuum tube voltmeter, used now only on old equipment; use *EVM* for electronic voltmeter

VTWS—vertical taut-wire sensor

VTZF—variable threshold zonal filter

vu-volume unit

VU-veeder unit

Vu-graph—informal spelling of viewgraph

VUA-virtual user address

VUV-vacuum ultraviolet

V&V—validation and verification

VVT-variable valve timing

W

W—1. watt 2. wolfram (or tungsten) (chemical symbol) 3. warhead

WA-work authorization

WAC—1. weapons allocation committee
2. weapons advisory committee
3. weapons activity committee

WACC—waste acceptance criteria committee

WADS—weapons access delay system (formerly the igloo access delay system)

WAF—waste assay facility

WAIS—1. wide area intrusion (detection) system
2. wide area information server (OSTI) 3. wide area infrared sensor

WALI—workstation for the analysis of LISA images

WALT—warning assessment logic terminal

WALTS-wide-angle laser transmitter system

WAM—1. wide-area mine 2. warhead arming manuever

WAN-wide-area network

WAP—weapon appraisal process

W-ARD—Westinghouse, Advanced Reactors Division

WARSS—wide area ramp surveillance system

WATCH—wireless alarm transmission of container handling

WATDR—waste accumulation traveler disposal request

WATS—wide-area telephone service

Wb-weber

WBC—whole body counter

WBCN—wide-band communications network (DOE) (Transmission between Production Facilities and the Weapons Labs)

WBS-work breakdown structure

WC—waste custodian

WCD—weapon compatibility date

WCL—Waste Certification Laboratory

WCP—weapon control panel

WCS—weapon control system

WCSC—Workgroup Computing Service Center

WCU—1. WATCH controller unit 2. weapon control unit

WDCR—weapon design and cost report

WDD—wing data disk

WDEC—weapon design, engineering, and certification

WDL-work days lost

WDR—weapons development report

WDSR-weapon development status report

WDT—warning display terminal

w.e.-water equivalent

WE—Western Electric

WEC—Westinghouse Electric Corporation

WeDID—Waste Component Recylce, Treatment, and Disposal Integrated Demonstration

WEF-Water Environment Federation

WEIL—weapon evaluation test laboratory

WERC—Waste-Management Education and Research Consortium

WERF—Waste Experimental Reduction Facility

WERP—Waste Examination Reduction and Packaging (Facility)

WES-1. warhead electrical system 2. weapon electrical system 3. Waterways Experiment Station

WESF—Waste Encapsulation and Storage Facility (Hanford)

WESTCOM-Western Command

WESTLANT—Western Atlantic Command (NATO)

WETL—Weapon Electrical Test Laboratory

WF&A—waste, fraud, and abuse

WFO-work for others

WFOTD—Work for Others Technologies Division (DOE)

wg-weapon grade

WGA—Western Governors Association

WGBC—waveguide beyond cutoff

wgs-water-gas shift

WGS—world geodetic system

WGSP-Western Gas Sands Project

Wh-watt hour

WH-warhead

WHC—Westinghouse Hanford Company

WHCA—White House Communications Agency

WHI—warhead installation

WHOI—Woods Hole Oceanographic Institution

WH/RV—warhead and/or reentry vehicle

WHS—warhead section

WHTU-warhead test unit

WIMP—weakly interacting massive particle

WIN-1. waste information network 2. women's inreach network

WINS—well-based inertial navigation system (now banned)

WIPP-Waste Isolation Pilot Plant

WIR-weapon information report

WIS-WWMCCS information system

WITS—warhead (or weapon) integration test system

WITU—a weapon identification device

WIU—weapon interface unit

wk-week

WL—1. Wright Laboratory 2. Weapons Laboratory 3. working level

WL/AD—Wright Laboratories/Armament Directorate

WLANT—West Atlantic

WLM—working level month

WM—waste management

WMD—waste-management defense

WMIC—Waste Minimization Implementation Center

WMin-waste-minimization

WMOA—waste minimization opportunity assessment

WMRP—waste-management and regulatory projects

WMS—warehouse management system

WMT—weapons maintenance trailer

WNINTEL—Warming Notice: Intelligence (Sources or Methods Involved)

w/o—1. weight/percent; see wt.% (preferred)
2. without

WO-1. work order 2. waste operations

WOB—women-owned (or woman-owned) business

WOC—Wing Operations Center

WORM—write once read many

WOTS—work order tracking system

WP—1. white phosphorus (screening smoke)

2. West Point. 3. Warsaw Pact (now obsolete)

4. word processing (or word processor)

WPAS—work package authorization system (nonweapons program)

WPC—Women's Program Committee

W/PC—work/passenger car

WPIO—WIPP Project Integration Office (DOE)

wpm-words per minute

WPM—work project manager

wpn-weapon

WPPSL—weapons production primary standards laboratory

WPT—Weapon Preload Test

WQC—water quality criteria

WQCC—Water Quality Control Commission

wr-wreath

WR—1. war reserve (stockpile of weapons)2. working receiver (STTF)

WRAP—waste receiving and processing plan

WRD&T—weapons research, development, and testing

WRE-Weapons Research Establishment (UK)

WREAFS—waste reduction evaluation at federal site

WRO—weapon retrofit order

WROC—waste reduction operations complex

wrs-weighted residual squared

WRT-WIPP radioactive test

WR&TD—weapons research and technology development (program)

WS—1. weapons system 2. warhead section 3. weapon storage 4. work station 5. worker safety

WS³—This system's formal US designation is the Weapon Storage and Security System (AN/FSQ-143-V). Within NATO, the WS³ is called the Weapon Security and Survivability System.

WSA-weapon storage area

WSARG—weapon safety assessment and review group

WSC—weapons security container

WSE-worksite evaluation

WSESRB—Weapon System Explosives Safety Review Board

WSET-weapon systems evaluation test

WSI—Waeckenhurt Services, Inc. (DOE contractor)

WSLI—weapon surety link interface

WSMC—Western Space and Missile Center

WSMR—White Sands Missile Range

WSNSO—weather service nuclear support office

W/sr-watt per steradian

WSRA—Wild and Scenic Rivers Act (1968)

WSRS—Westinghouse Savannah River Site

WSRSG—weapon system review study group

WSS—weighted sum of squares

WSSB—weapon system safety branch

WST-work study trainee

W/st-watt per steradian

WSV—weapons storage vault

wt-weight

WT-water tight

wt%—weight percent

WTDC—waste tank diverter cell

WTE-warhead test environment

WTO-Warsaw Treaty Organization

WTS—Washington tactical switch

WTTV-WSMC transponder test van

WTVD—Russian acronym for Western Theater of Military Operations

WW—world war; initial-cap words when used with a number as World War II (WWII)

WWC-wire-wound calorimeter

WWMCCS—World-Wide Military Command and Control System

WWVCS—World-Wide Voice Conferencing System

WWW—world-wide web (multimedia environment)

WYSIWYG—what you see is what you get

X-reactance

XCHEM—explosive chemical

XDT—delayed detonation (sometimes called sympathetic detonation)

XGDS—exempt from general declassification schedule

XISPS-x-ray image scan processing system

X-MIBA—external microbeam analysis

X-MP—x-multiplexer-processor

XNS-Xerox network system

XPS-x-ray photoelectron spectroscopy

XRD-1. x-ray detector; 2. x-ray diode

XRL-x-ray laser

XTL-crystal

xu-x-unit (the siegbahn, a unit of length)

XUV-extreme ultraviolet

 \mathbf{Y}

Y-yttrium (chemical symbol)

Y-12—Oak Ridge Y-12 Plant

YAG—yttrium aluminium garnet (laser)

Yb-ytterbium (chemical symbol)

yd-yard

YIG-Yttrium Iron Garnet (laser)

YMP-Yucca Mountain Project

YOT—youth opportunity trainee

yr-year

YTD-year to date

Y-Term-Yale terminal emulator

 \mathbf{Z}

ZB—Zodiac Beauchamp

ZEG-zero energy growth

ZES-zero energy state

Zn—zinc sulfide (chemical element)

ZnS—zinc sulfide

ZOC—zone operations control

ZPPR—zero power plutonium reactor

Appendix A. Approximate Conversion Factors for Selected SI (Metric) Units

Multiply SI (Metric Unit)	Ву	To Obtain US Customary Unit	
Celsius (°C)	9/5+32	Fahreneheit (°F)	
Centimeters (cm)	0.39	Inches (in.) Meters	
Cubic Meters (m³)	35.0	Cubic Feet (ft ³)	
Grams (g)	0.035	Ounces (oz)	
Hectares (ha)	2.5	Acres	
Kilograms (kg)	2.2	Pounds (lb)	
Kilometers (km)	0.62	Miles (mi)	
Liters (L)	0.26	Gallons (gal)	
Meters (m)	3.3	Feet (ft)	
Micrograms per gram (mg/g)	1.0	Parts per Million (ppm)	
Milligrams per Liter (mg/L)	1.0	Parts per Million (ppm)	
Square Kilometers (km²)	0.39	Square Miles (mi ²)	

Appendix B. DOE Laboratories

DOE's three major defense laboratories are:

- Sandia National Laboratories
- Los Alamos National Laboratory
- Lawrence Livermore National Laboratory

DOE's national multi-program laboratories are:

- Sandia National Laboratories
- Los Alamos National Laboratory
- Lawrence Livermore National Laboratory
- Argonne National Laboratory
- Brookhaven National Laboratory
- Idaho Engineering Laboratory
- Lawrence Berkley Laboratory
- Oak Ridge National Laboratory
- Pacific Northwest Laboratory

Appendix C. Chemical Elements

(From the Handbook of Chemistry and Physics, 70th edition, 1988-1990, CKC Press)

	Symbol	Atomic Number		Symbol	Atomic Number
Actinium	Ac	89	Neodymium	Nd	60
Aluminum	Aì	13	Neon	Ne	10
Americium	Am	95	Neptunium	Np	93
Antimony (Stibium)	Sb	51	Nickel	Ni	28
Argon	Ar	18	Niobium	Nb	41
Arsenic	As	33	Nitrogen	N	7
Astatine	At	85	Nobelium	No	102
Barium	Ва	56	Osmium	Os	76
Berkelium	Bk	97	Oxygen	0	8
Beryllium	Be	4	Palladium	Pd	46
Bismuth	Bi	83	Phosphorus	P	15
Boron	В	5	Platinum	Pt	78
Bromine	Br	35	Plutonium	Pu	94
Cadmium	Cd	48	Polonium	Po	84
Calcium	Ca	20	Potassium	K	19
Californium	Cf	98	Praseodymium	Pr	59
Carbon	C	6	Promethium	Pm	61
Carbon Cerium	Ce	58	Protactinium	Pa	91
Cesium	Cs	55	Radium	Ra	88
Chlorine	Cl	17	Radon	Rn	86
Chromium	Cr	24	Rhenium	Re	75
Cobalt	Co	2 4 27	Rhodium	Rh	45
			Rubidium	Rb	37
Copper	Cu	29		Ru	44
Curium	Cm	96	Ruthenium	Sm	62
Dysprosium	Dy	66	Samarium		
Einsteinium	Es	99	Scandium	Sc	21
Erbium	Er	68	Selenium	Se	34
Europium	Eu	63	Silicon	Si	14
Fermium	Fm	100	Silver	Ag	47
Fluorine	F	9	Sodium	Na	11
Francium	Fr	87	Strontium	Sr	38
Gadolinium	Gd	64	Sulfur	S	16
Gallium	Ga	31	Tantalum	Ta —	73
Germanium	Ge	32	Technetium	Tc	43
Gold	Au	79	Tellurium	Te	52
I afnium	Hf	72	Terbium	Tb	6 5
Helium	He	2	Thallium	Tl	81
Holmium	Ho	67	Thorium	Th	90
Hydrogen	Н	1	Thulium	Tm	69
Indium	In	49	Tin	Sn	50
lodine	I	53	Titanium	Ti	22
ridium	Ir	77	Tungsten	W	74
ron	Fe	26	Unnilhexium	Unh	106
Krypton	Kr	36	Unnilpentium	Unp	105
Lanthanum	La	57	Unnilquadium	Unq	104
_awrencium	Lr (Lw)	103	Unnilseptium	Uns	107
Lead	Pb	82	Uranium	U	92
Lithium	Li	3	Vanadium	V	23
Lutetium	Lu	71	Xenon	Xe	54
Magnesium	Mg	12	Ytterbium	Yb	70
Manganese	Mn	25	Yttrium	Y	39
Mendelevium	Md	101	Zinc	Żn	30
Mercury	Hg	80	Zirconium	Zr	40
Molybdenum	Mo	42	Bit comum	<u></u>	••

Appendix D. Classified Information Accessible to L-Cleared or Q-Cleared Employees

- An "L" clearance allows access to Confidential Restricted Data (CRD), Secret
 Formerly Restricted Data (SFRD), Confidential Formerly Restricted Data (CFRD),
 Secret National Security Information (SNSI), Confidential National Security
 Information (CNSI), and Special Nuclear Material (SNM) Category II, III, and IV.
- A "Q" clearance allows everything listed for the "L" clearance plus Secret Restricted Data (SRD) and SNM Category I.
- A "Q" clearance with Top Secret (TS) access authorization allows access to all the above plus Top Secret in the following categories: Restricted Data, Formerly Restricted Data, and National Security Information.

Level	Restricted Data	Formerly Restricted Data	National Security Information
L-Cleared	• Confidential	SecretConfidential	SecretConfidential
Q-Cleared	SecretConfidential	Top SecretSecretConfidential	Top SecretSecretConfidential

Appendix E. Common Abbreviations Used for Functions

ad adjoint arg argument cos cosine

cosh hyperbolic cosine

cot or ctg cotangent

coth hyperbolic cotangent

determinant det dim dimension exponential exp general linear GLhomology hom imaginary Im inferior inf kernel ker limit lim limit inferior lim inf limit superior lim sup logarithm ln (or log)

lub least upper bound

max maximum
min minimum
mod modulus
P property
PL piecewise linear

Re real sine

sinh hyperbolic sine SL special linear tan tangent

tanh hyperbolic tangent

tr trace wr wreath

Appendix F. Greek Alphabet

Identity	Lower Case	Capital	Samples of Handwritten Forms
alpha (a)	α	A	a A a a k aa a
beta (b)	$oldsymbol{eta}$	В	p 8 B B B B B B B B B B B B B B B B B B
gamma (g)	γ	Γ	y r v v x r r v
delta (d)	δ	Δ	9 9 9 9 9 9 9
epsilon (e)	ϵ	E	€ € € € € € € € € € € € € € € € € € €
zeta (z)	ζ	Z	92 E S S 5
eta (e)	η	Н	7 4 7 4 7 7 7
theta (th)	heta	Θ	
iota (i)	ι	I	t I i
kappa (k)	κ	K	KK KK
lambda (l)	λ	Λ	$\lambda \wedge \lambda \wedge$
mu	μ	M	pm y m M M Y n
nu (n)	ν	N	INVVV. Y V
xi (x)	ξ	Ξ	3 = 5 5 8 6 8 3
omicron (o)	o	0	.0.0
pi (p)	π	П	$\pi \Pi \pi \pi \Pi \pi \Pi \pi \Upsilon$
rho (r)	ho	P	PPPPPPPPP
sigma (s)	σ	Σ	· 2000 365 720
tau (t)	τ	Т	+ T + > + 7 7 7
upsilon (u)	υ	Υ	
phi (ph)	ϕ	Φ	ρ Φ ν Φ Φ Φ Φ Ε Ψ \$ \$
chi (ch)	x	X	$x \times x \times$
psi (psi)	ψ	Ψ	y 4 y 4 y 4 y 4 y 4 y 4 y 4 y 4 y 4 y 4
omega (o)	ω	Ω	JEM JEM JE MARIN

Appendix G. Metrix Terminology

Prefix	Terminology
micro	one millionth (10 ⁻⁶)
milli	one thousandth (10^{-3})
centi	one hundredth (10^{-2})
tera	one trillion (10 ¹²)
deci	one tenth (10^{-1})
deka (or deca)	ten (10)
hekto (or hecto)	one hundred (10²)
giga	one billion (10 ⁹)
kilo	one thousand (10 ³)
myria	ten thousand (10 ⁴)
mega	one million (10 ⁶)
atto	one quintillionth (10^{-18})
nano	one billionth (10 ⁻⁹)
pico	one trillionth (10^{-12})
femto	one qradrillionth (10 ⁻¹⁵)

Appendix H. Official Sandia Addresses

The official mail addresses for Sandia National Laboratories are:

- Sandia/New Mexico
 P.O. Box 5800
 Albuquerque, New Mexico 87185-5800
- Sandia/California
 P.O. Box 969
 Livermore, California 94551-0969
- Tonopah Test Range
 P.O. Box 871
 Tonopah, Nevada 89049

Appendix I. Proofreader's Marks

The proofreading symbols shown on these pages represent the accepted system of marking		LIS	LETTER-SPACE
changes o	n both copy and proofs.	#	Insert space(or more space)
wf!	Wrong font (size of style of type)		Em quad space or indention
lc	Set in LOWER CASE or LOWER CASE	ቃ	Delete, take out
caps	SET IN capitals	stet	Let it stand — (all-matter above dots)
caps+lc	Lower Case with Initial Caps	#	Begin a paragraph
sm.caps	SET IN small capitals	•	No paragraph.
Switz.	Set in roman (or regular) type	run in	Run in
(ital)	Set in italic (or oblique) type	flush A	No paragraph indention
L.F.	Set in lightface type	⊙	Period 🥎 Comma
bf	Set in boldface type	(3)	Semicolon ③ Colon
	Move to right	· V	Apostrophe or 'single quote'
	_ Move to left	" "	Quotation marks "quotes"
	Lower (letters <u>or</u> words)	?/	Question mark or "query"
	Elevate (letters of words)	!/	Exclamation point
	Straighten line (horizontally)	=/	Hyphen
tr.	Transpose lettest in a word	(/)	Parentheses
Tr.	Transpose enclosed in ring matter	[/]	Brackets
	Insert lead between lines	9	Revers@(upside-down type or cut)
	Take out lead or tr. lead		Push down space or lead that prints
	Close up en tirely; take out space	SP	Spell out (20 (Gr.))
	Less space between words	of wi	OK "with corrections"
eg#	Equalize space between words	ox yc	or "as corrected"

Appendix J. Signs and Symbols

+ - × ÷	Plus Minus Multiplied by Divided by Equal to	N VI VI IV	Greater than or equal to
±	Plus or minus	•	Equivalent to
± ∓	Minus or plus	¥+00	Not equivalent
±	Plus or equal	7	Not equivalent Included in
-	Identical with, congruent	Š	Excluded from
#	Not identical with	1	Perpendicular to
~	Not equal to Nearly equal to	11	Parallel
≅		扩	Not parallels
5	Equal to or greater than	∠ ∴.	Angle Hence, therefore
7	Equal to or less than		
<u> </u>	Less than	•	Multiplied by Ratio
7	Less than Greater than	· V	Square root
É	Greater than	ż	Cube root
<u> </u>	Greater than or less than	ν Σ	Summation of
∢	Not less than	П	Product sign
<u>≯</u>	Not greater than	#	Pi (3.1416)
<u> </u>	Less than or equal to	Ŏ	Union sign
※するくしゝしゃ 本学/21で16/	Less than or equal to	Ų	Intersection sign Factorial sign
	•	Ė	is an element of
5	Less than or greater than	ě	Is not an element of

V Nabla; del

✓ Variation

Infinity

ħ h/2π

∂ Partial differential

∫ Integral

✓ Contour integral

Equilibrium reaction
beginning at right

Delta

Δ

. Appendix K. State Abbreviations

AlabamaAL	KentuckyKY	OhioOH
AlaskaAK	LouisianaLA	OklahomaOK
ArizonaAZ	MaineME	OregonOR
ArkansasAR	MarylandMD	PennsylvaniaPA
CaliforniaCA	MassachusettsMA	Puerto RicoPR
ColoradoCO	MichiganMI	Rhode IslandRI
ConnecticutCT	MinnesotaMN	South CarolinaSC
DelawareDE	MississippiMS	South DakotaSD
District of ColumbiaDC	MissouriMO	TennesseeTN
FloridaFL	MontanaMT	TexasTX
GeorgiaGA	NebraskaNE	UtahUT
GuamGU	NevadaNV	VermontVT
HawaiiHI	New HampshireNH	VirginiaVA
IdahoID	New JerseyNJ	Virgin IslandsVI
IllinoisIL	New MexicoNM	WashingtonWA
IndianaIN	New YorkNY	West VirginiaWV
IowaIA	North CarolinaNC	WisconsinWI
KansasKS	North DakotaND	WyomingWY

Appendix L. Suggestions Form

To: MS0619/Betty J. Tolman, 12615

SAND89-0217 Revised Acronyms, Initialisms, and Abbreviations March 1995

Suggestions Form

Please correct the following:

Comments:

Page Number	Acronym	Correction

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	Livermore, California, 94551-0969	1	MS9018	Central Technical
				Files, 8523-2
831	Managers and above at SNL/NM	25	MS0899	Technical Library,
112	Managers and above at SNL/CA			(C. Sousa), 13414
571	All secretaries at SNL/NM and	1	MS0619	Print Media, 12615
	SNL/CA	2	MS0100	Doc Proc, 7613-2
				For DOE/OSTI
		I		

